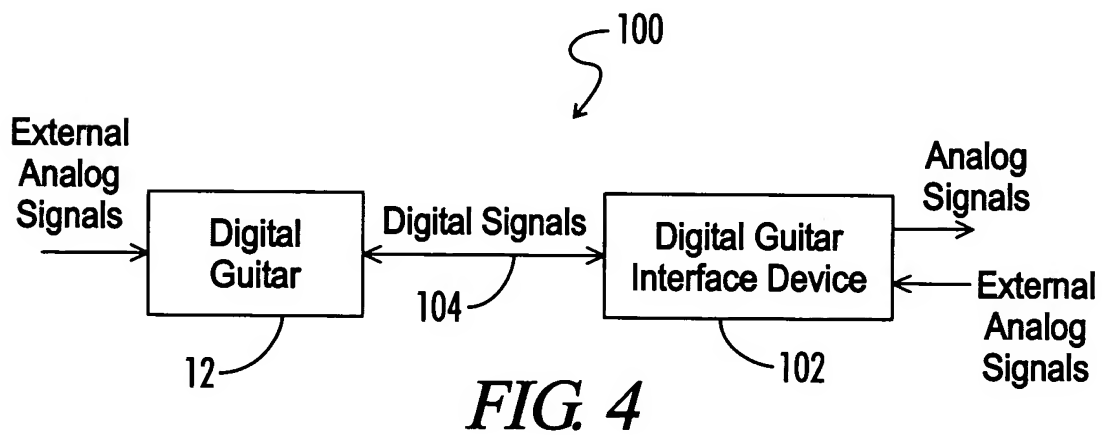
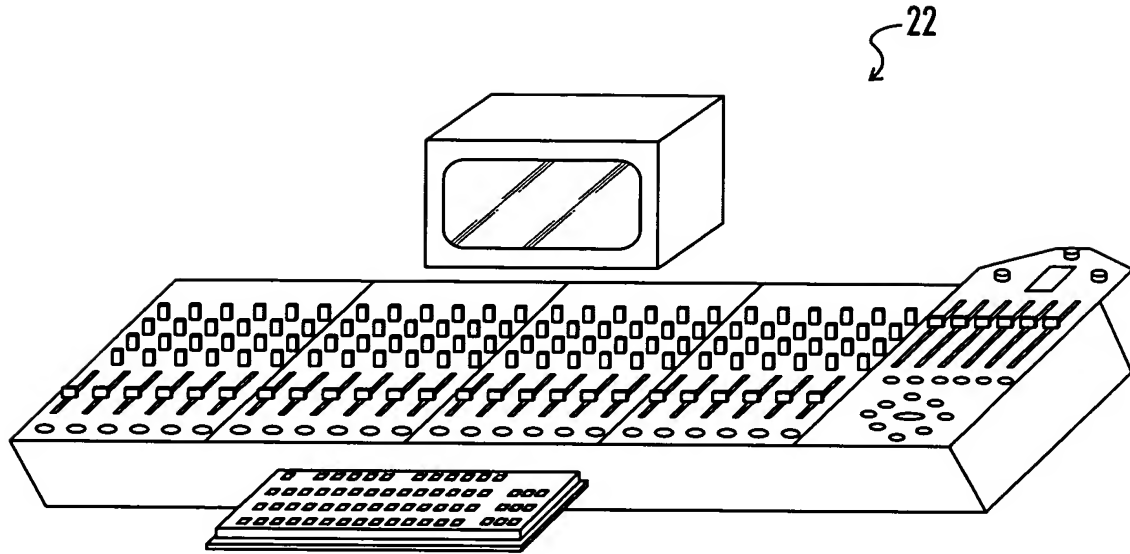


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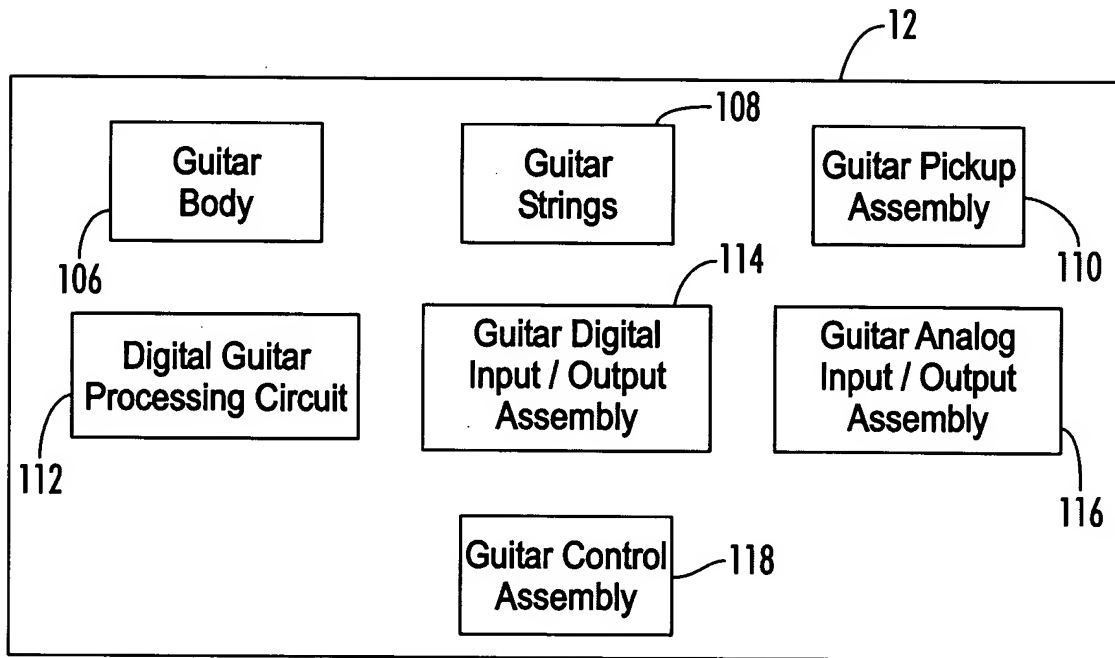


FIG. 5

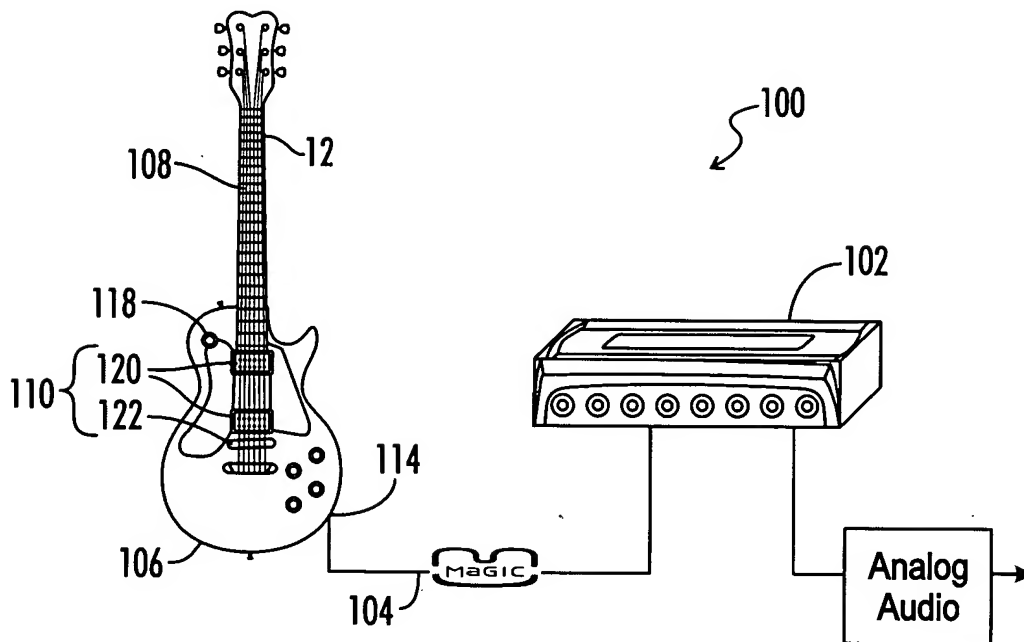


FIG. 6

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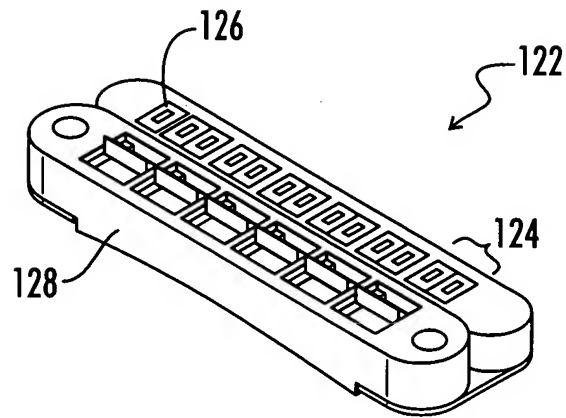


FIG. 7

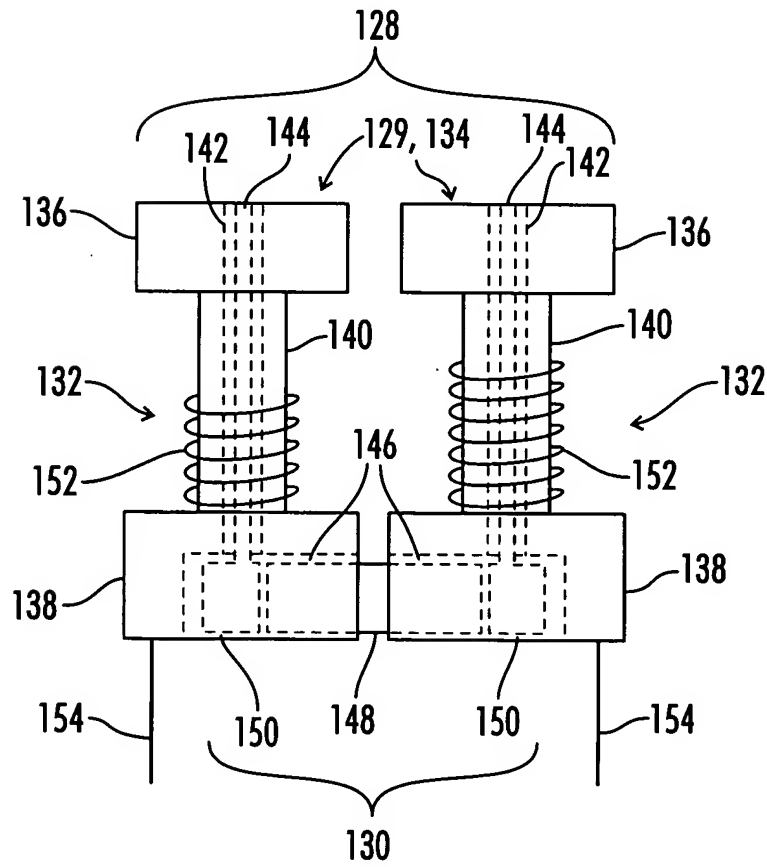


FIG. 8

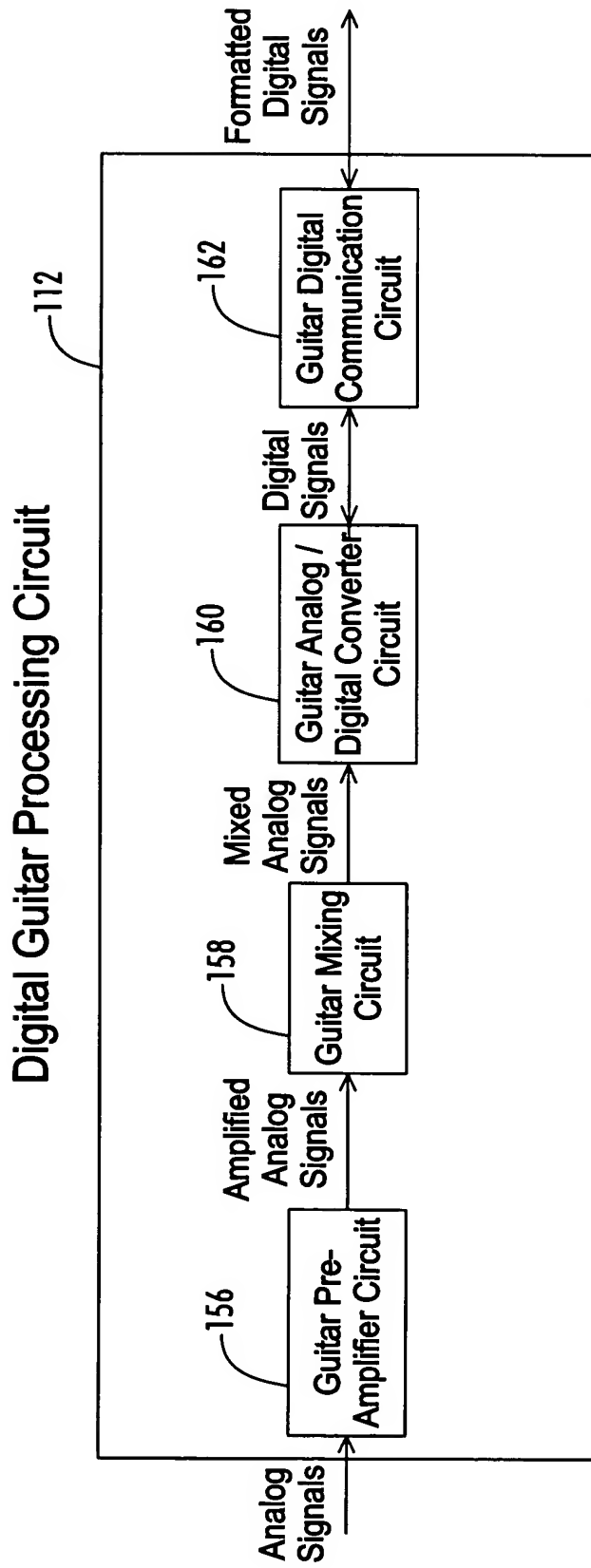


FIG. 9

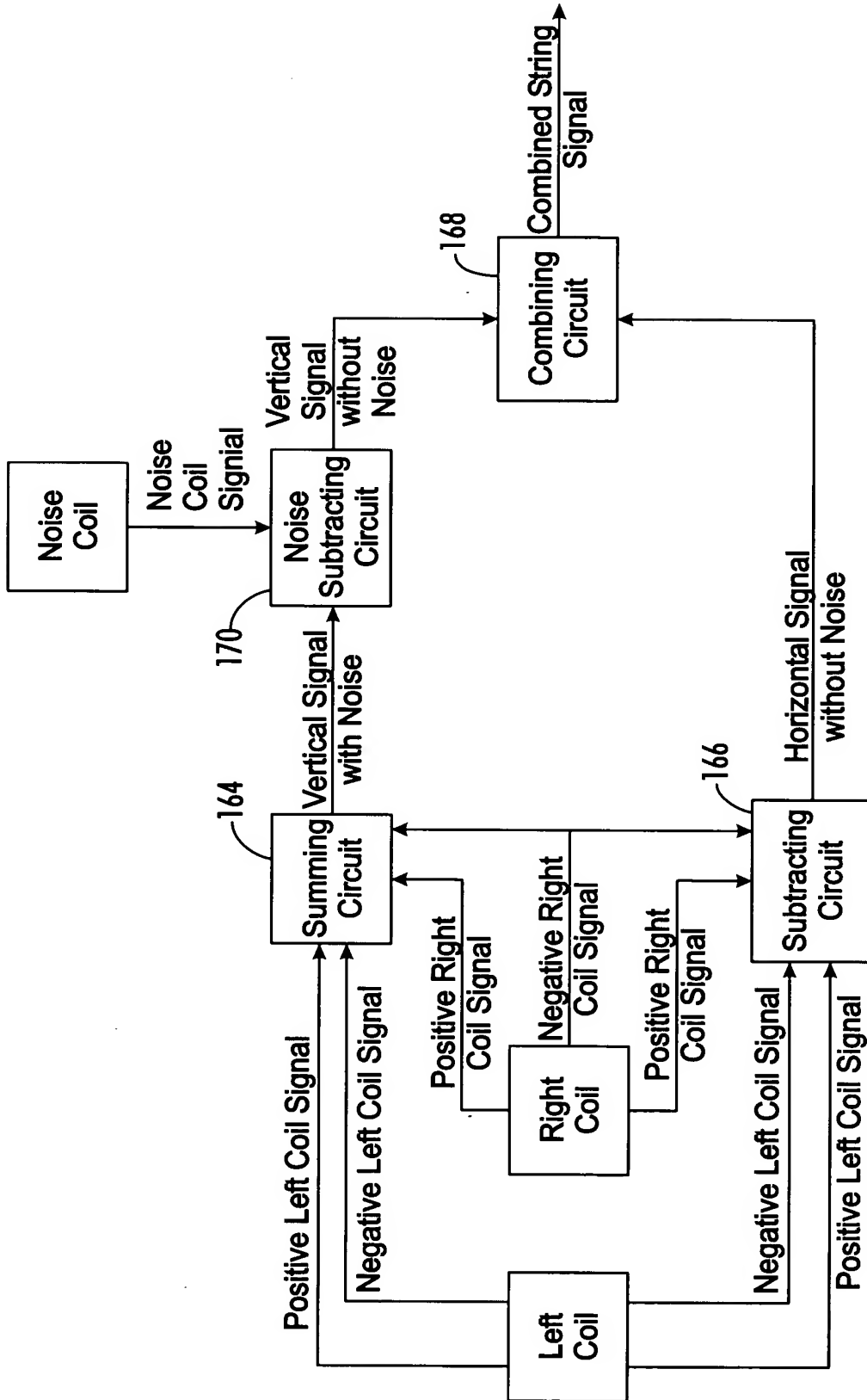


FIG. 10

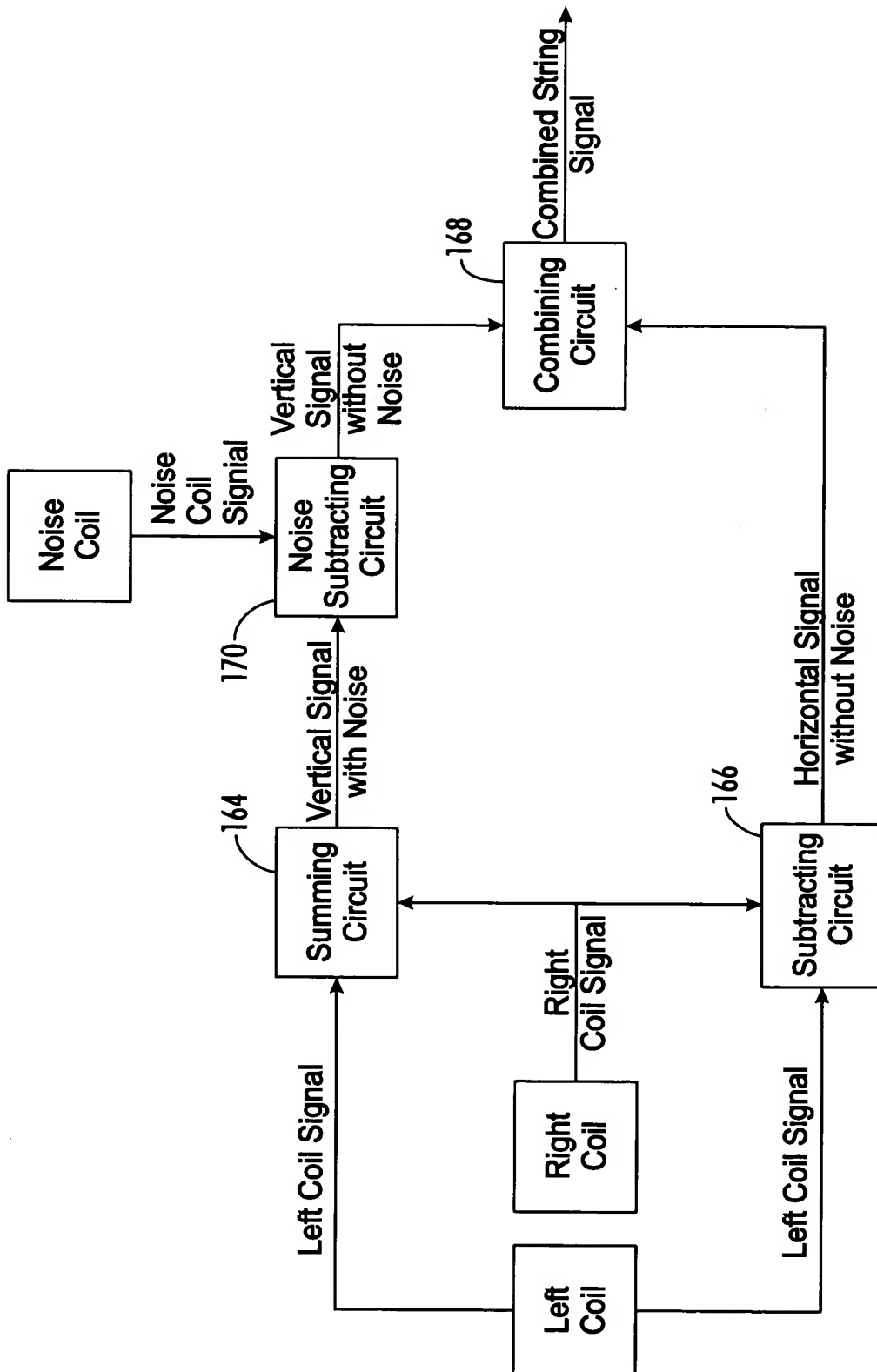


FIG. 11

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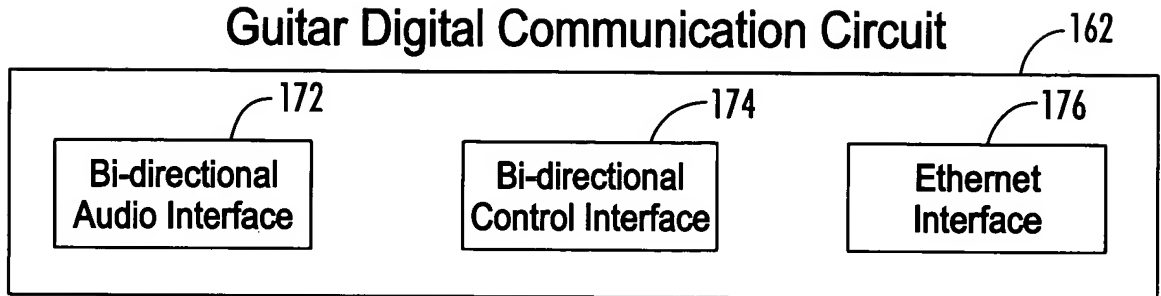


FIG. 12

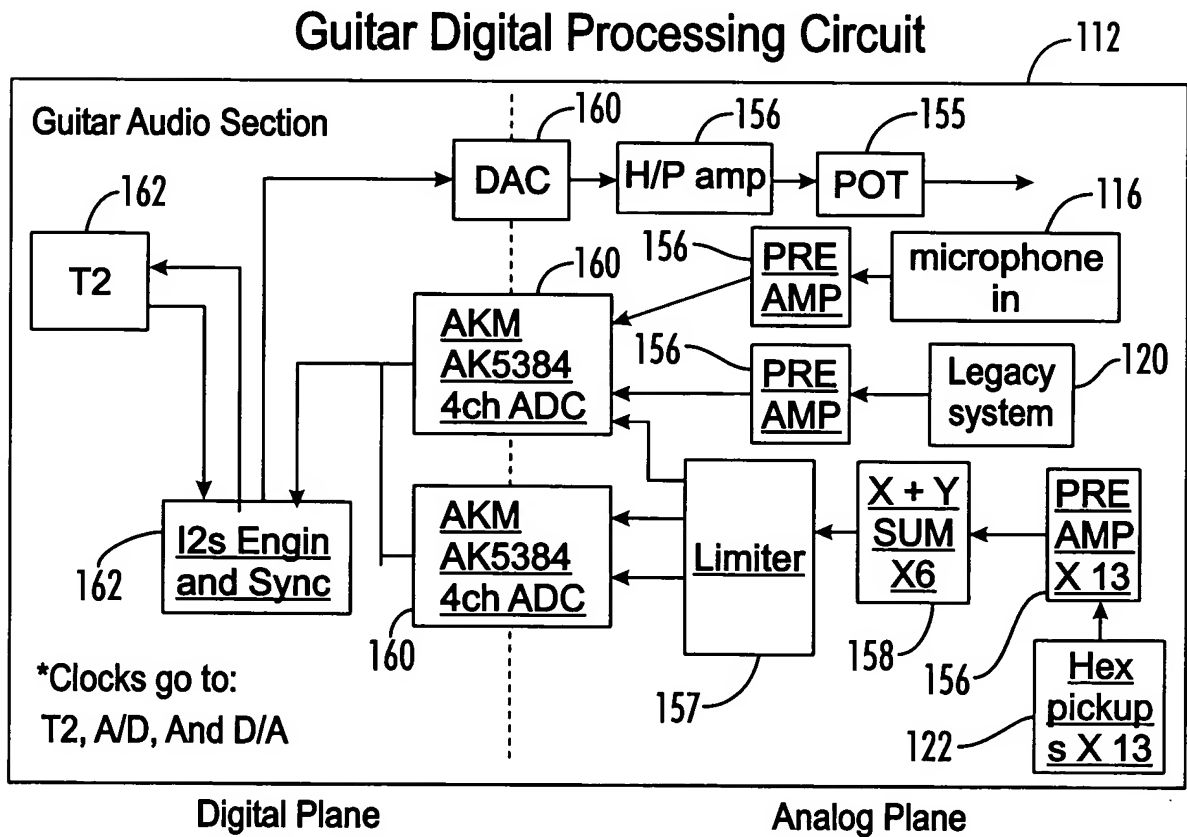


FIG. 13

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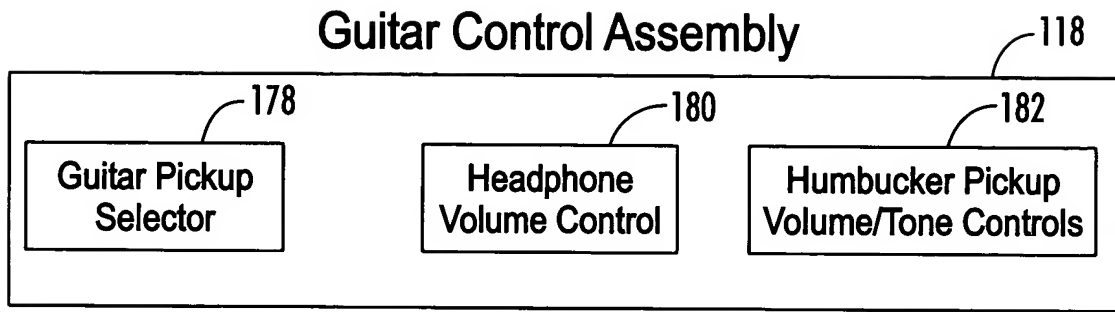


FIG. 14

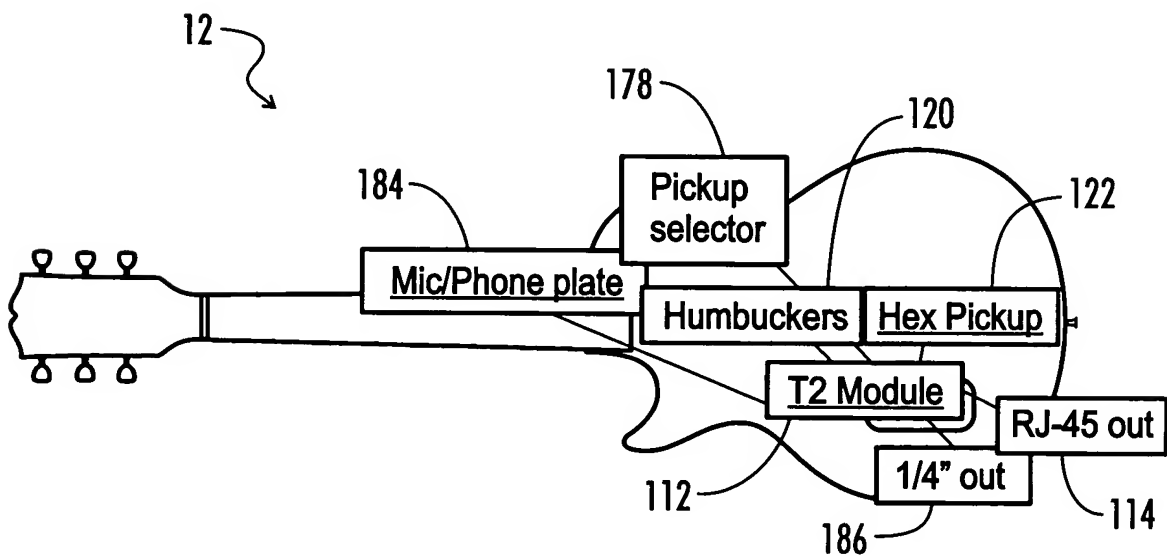


FIG. 15

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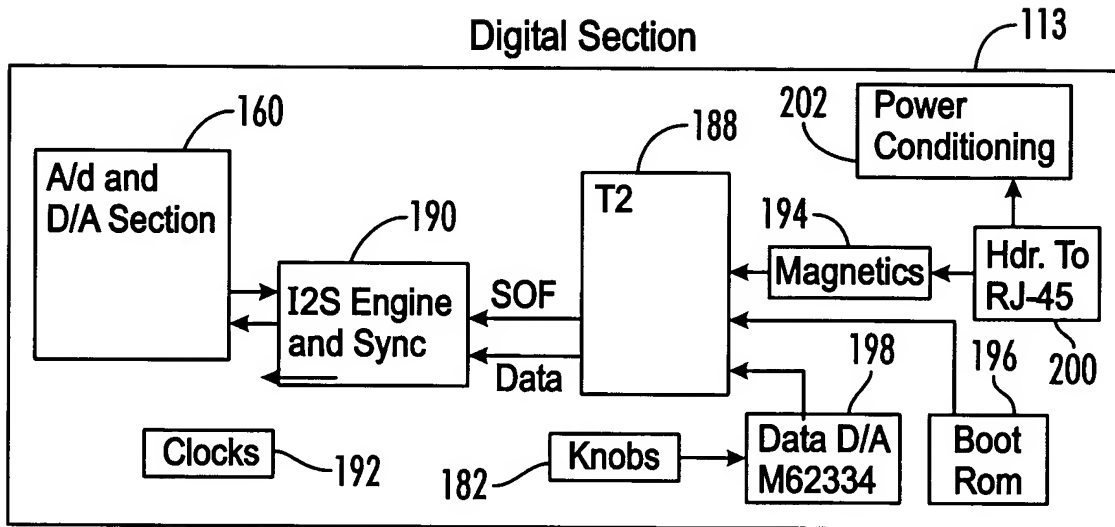


FIG. 17

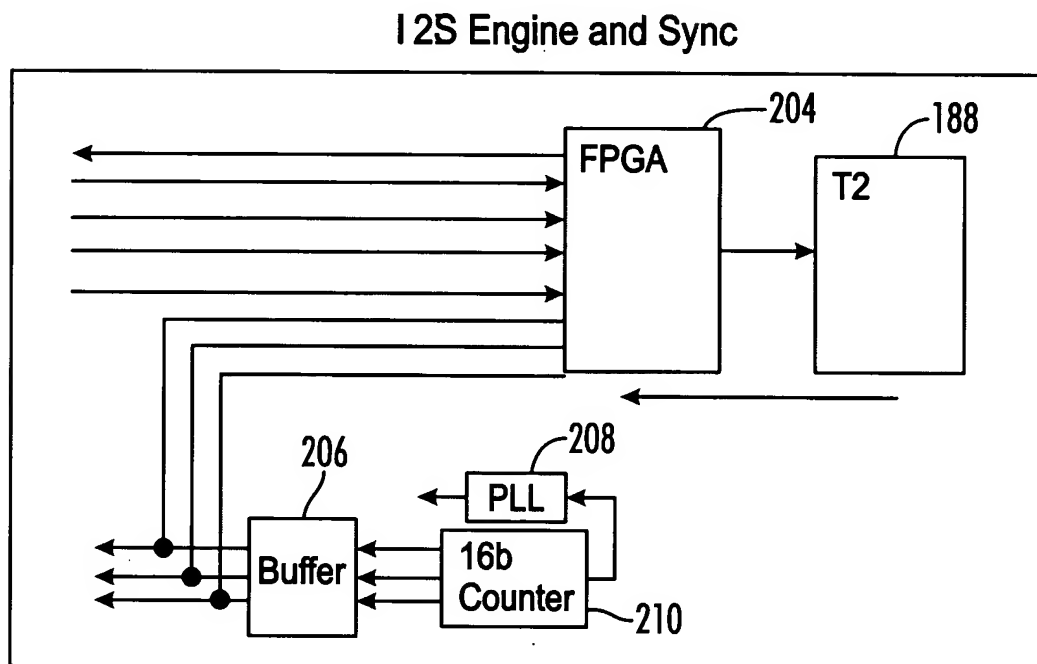


FIG. 18

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Preamplifier Section

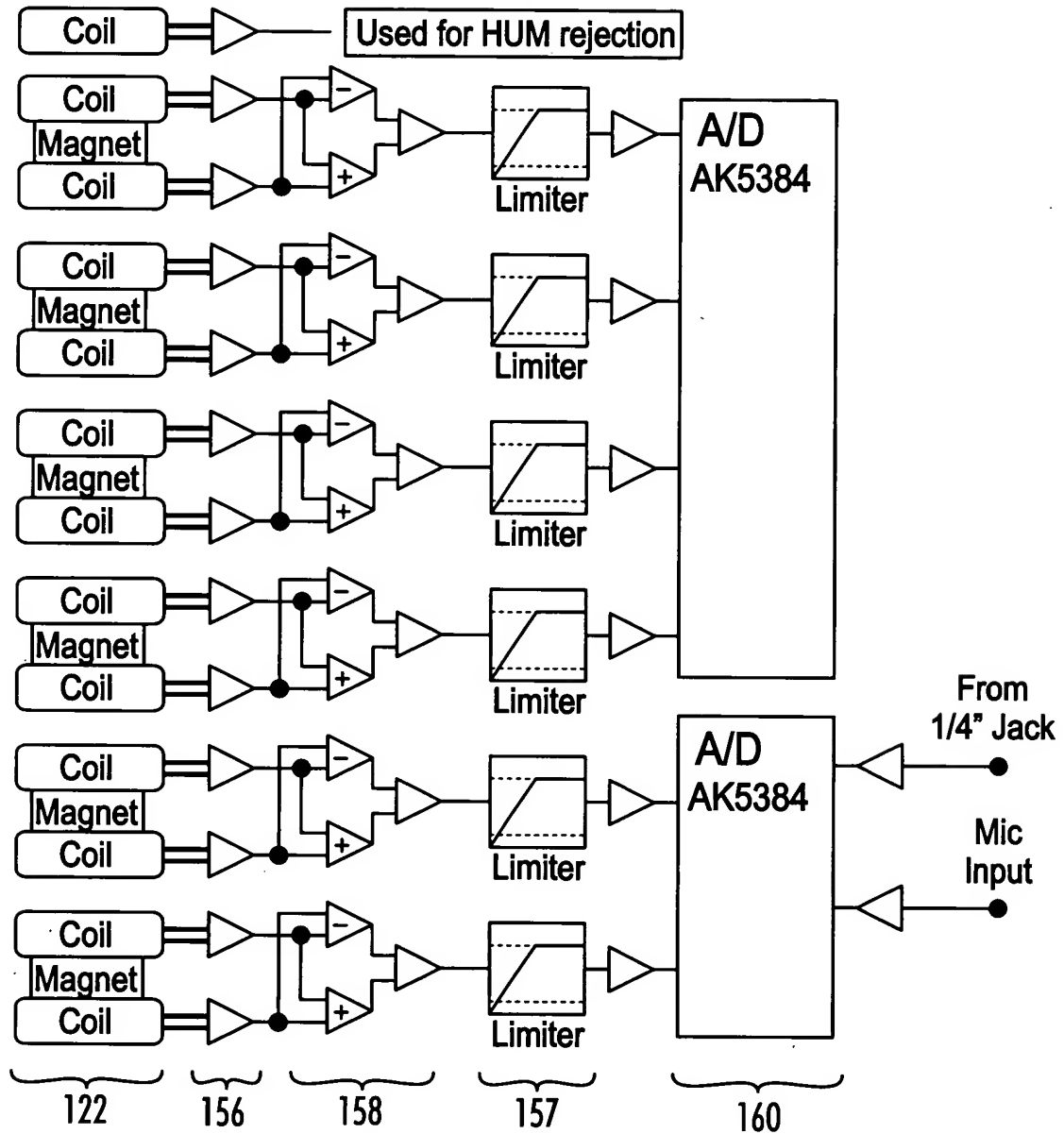


FIG. 16

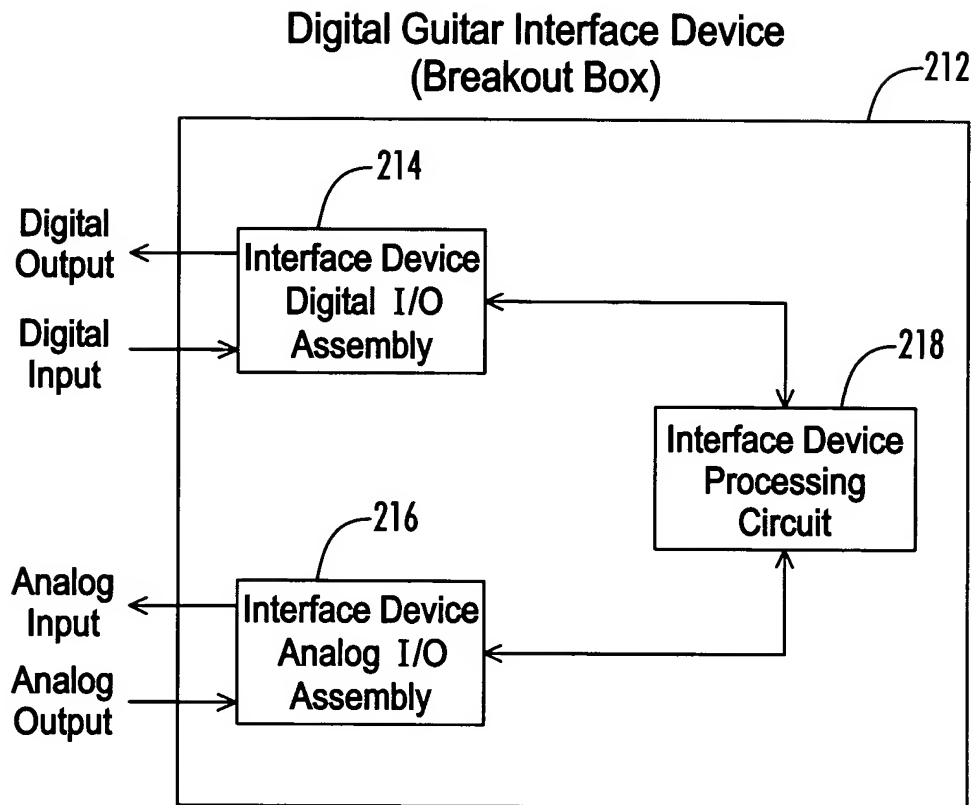


FIG. 19

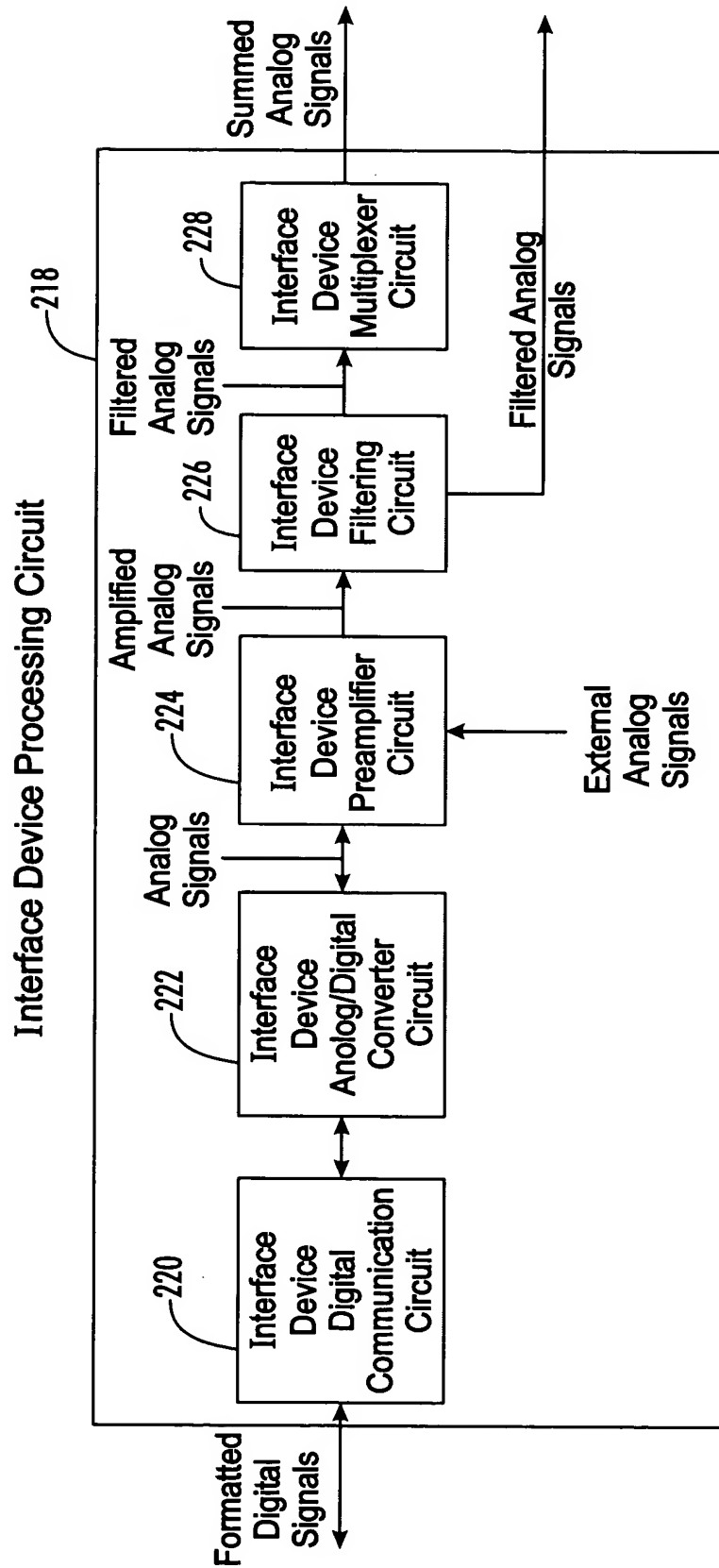


FIG. 20

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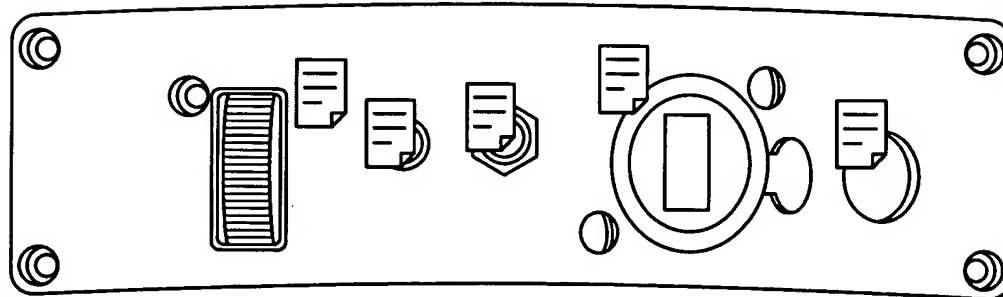
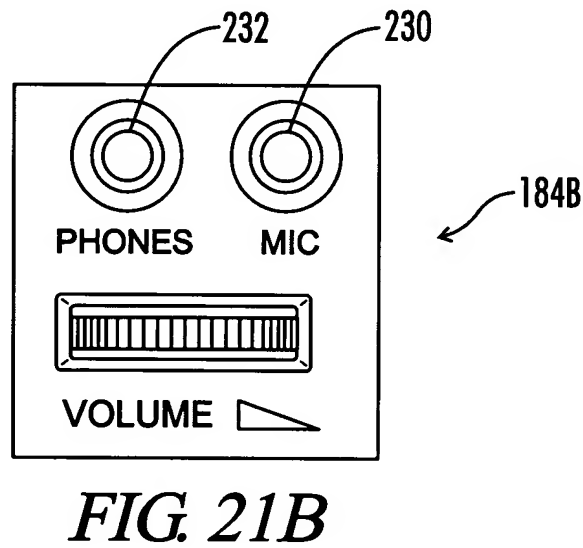
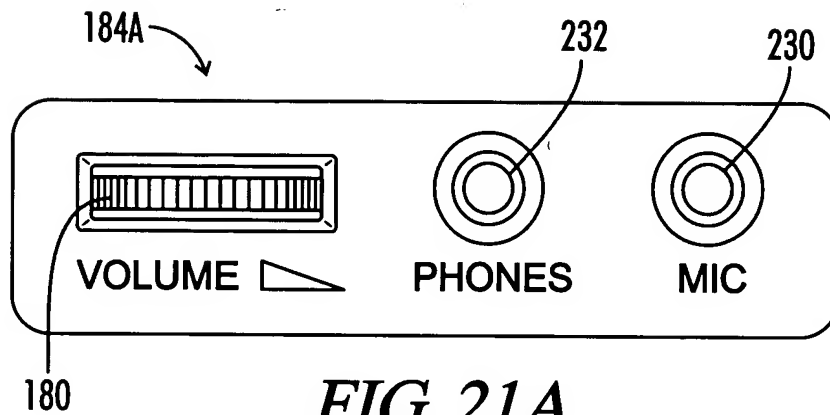


FIG. 21C

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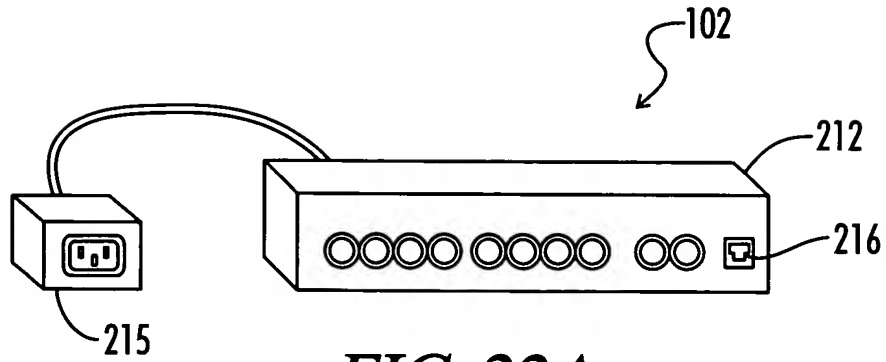


FIG. 22A

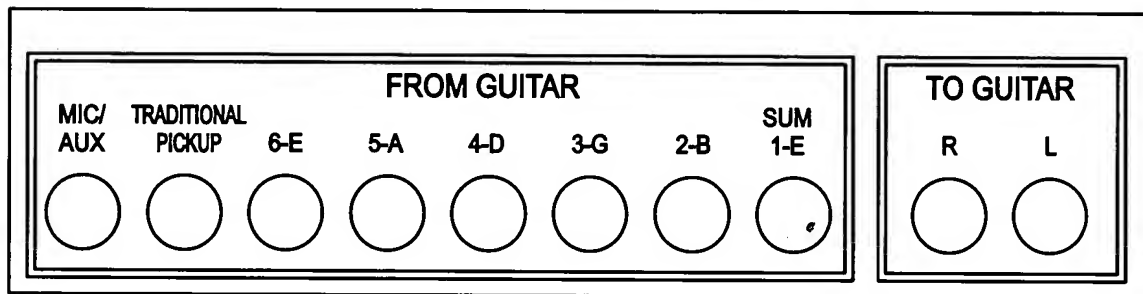


FIG. 22B

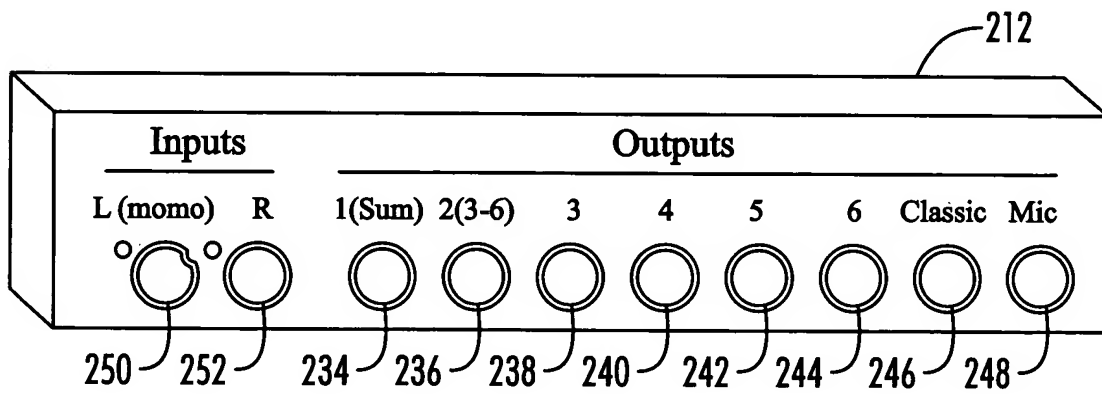


FIG. 23

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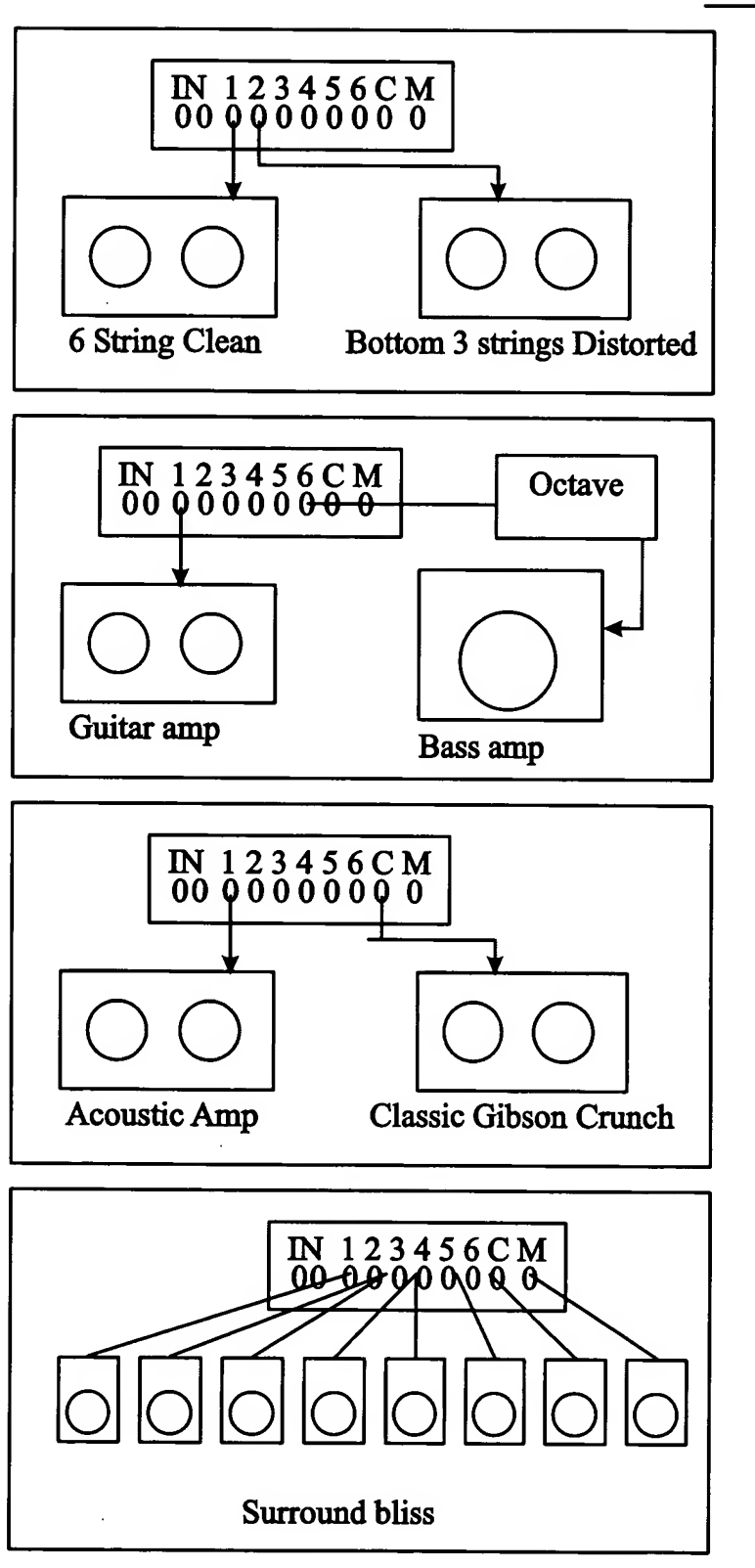


FIG.24

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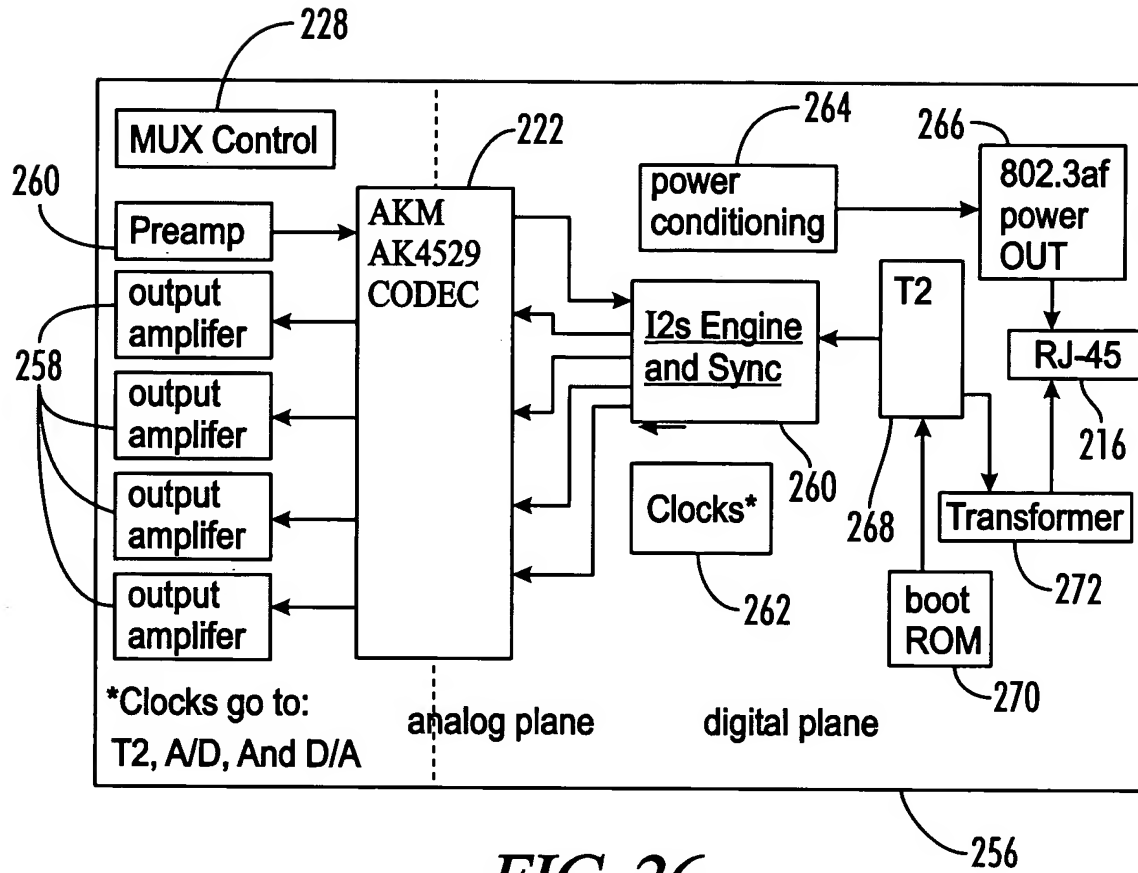


FIG. 26

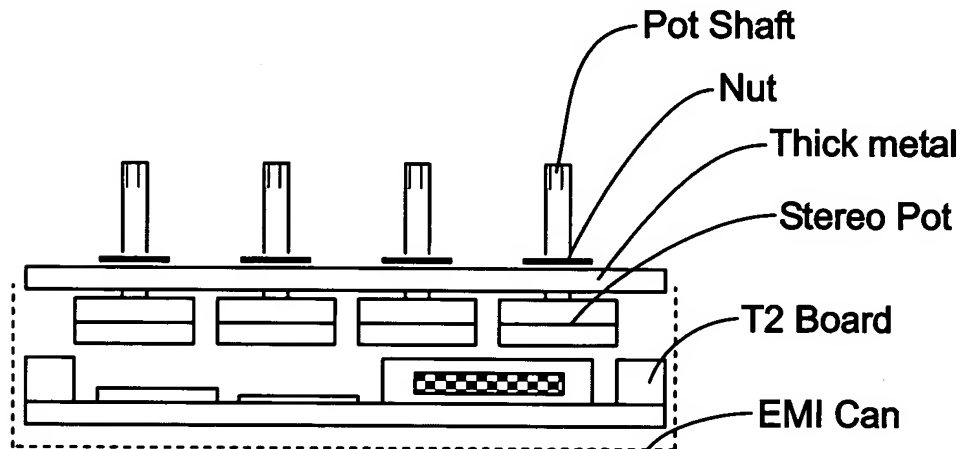
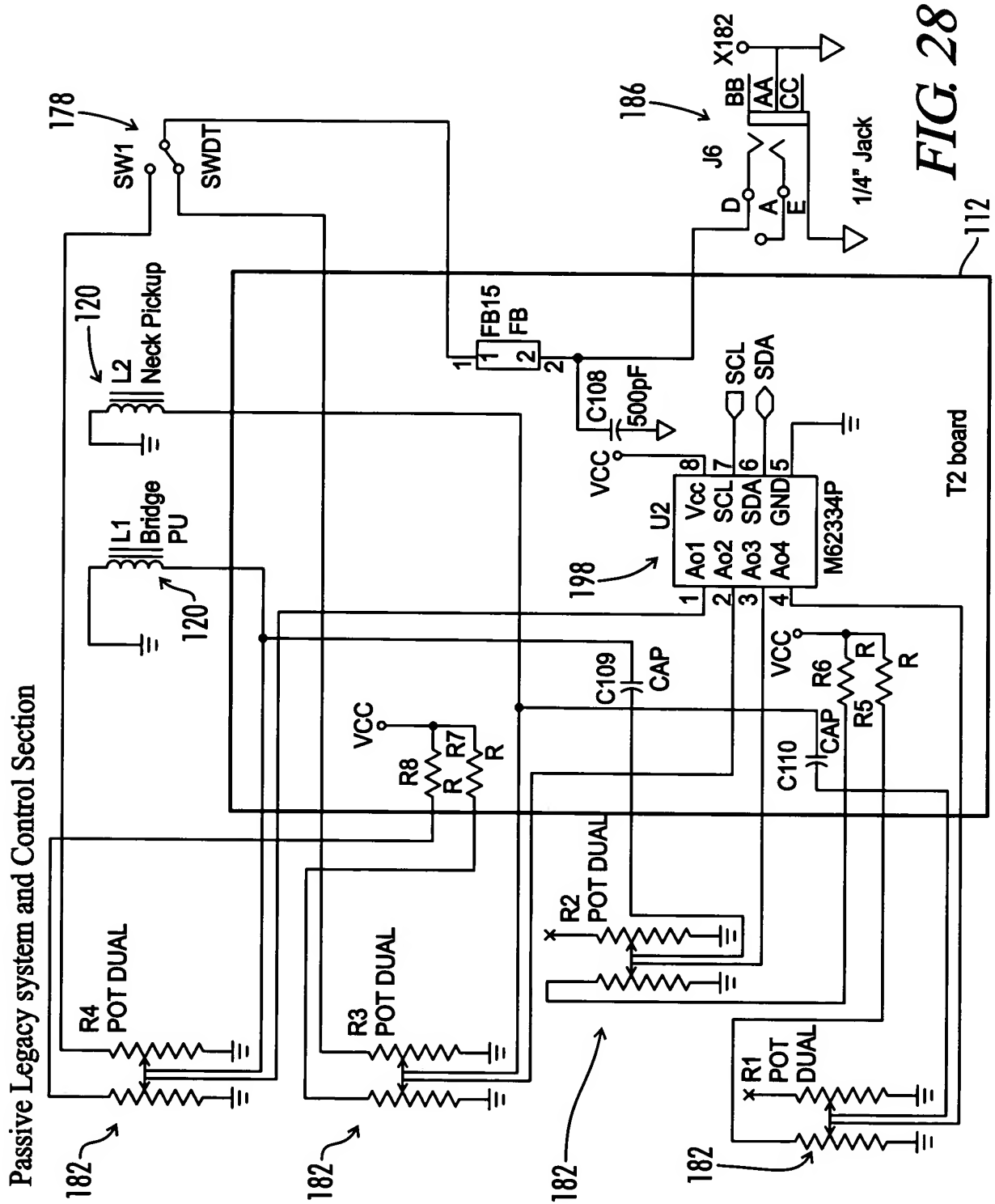


FIG. 27

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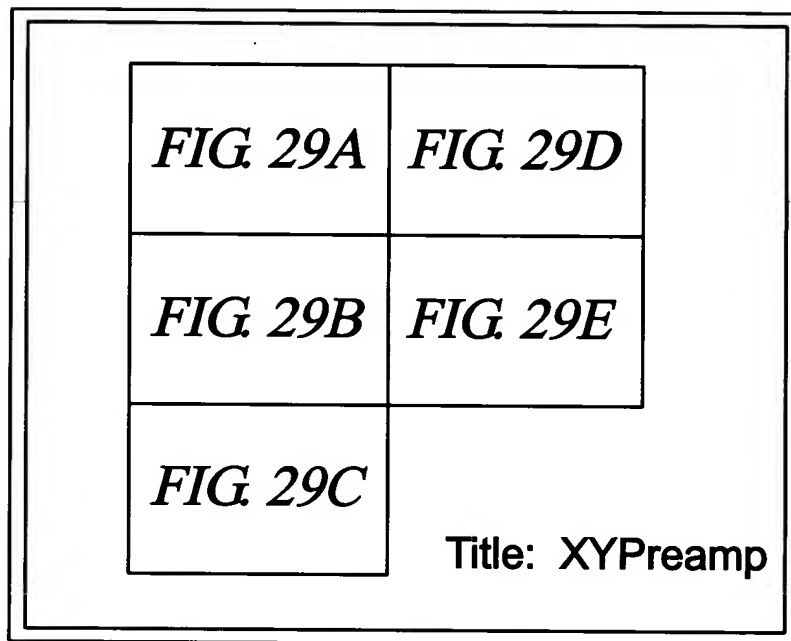
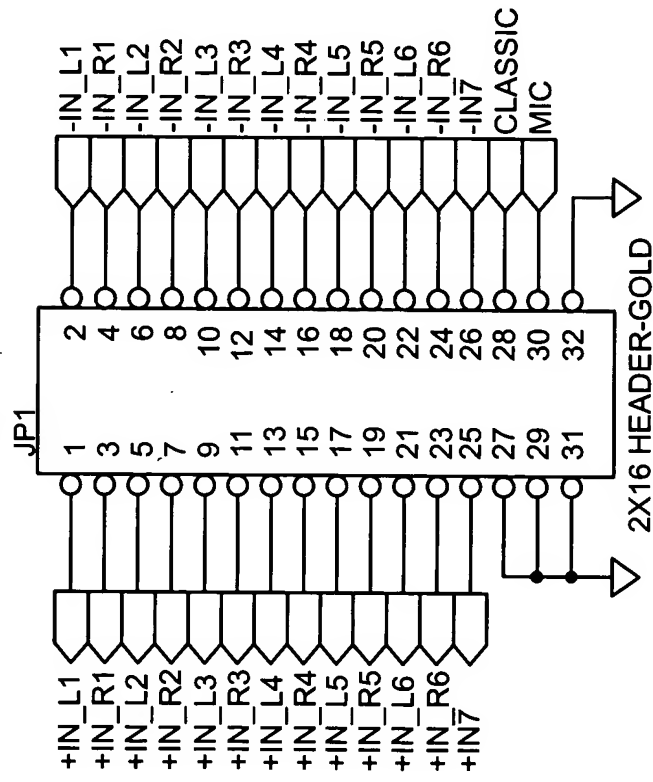


FIG. 29

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Pickup & Mic Inputs
Connector to be specified



HEX Pickup

- +IN_L1, -IN_L1, +IN_R1, -IN_R1 = High E string
- +IN_L2, -IN_L2, +IN_R2, -IN_R2 = B string
- +IN_L3, -IN_L3, +IN_R3, -IN_R3 = G string
- +IN_L4, -IN_L4, +IN_R4, -IN_R4 = D string
- +IN_L5, -IN_L5, +IN_R5, -IN_R5 = A string
- +IN_L6, -IN_L6, +IN_R6, -IN_R6 = Low E string
- +IN_7, -IN_7 = Hum cancellation coil

CLASSIC = Hum Bucker pickup (Classic is actually input from control board. The header connection will be an output to the 1/4" jack)

MIC = microphone input (this input has 12V phantom power for capacitor microphones)

FIG. 29A



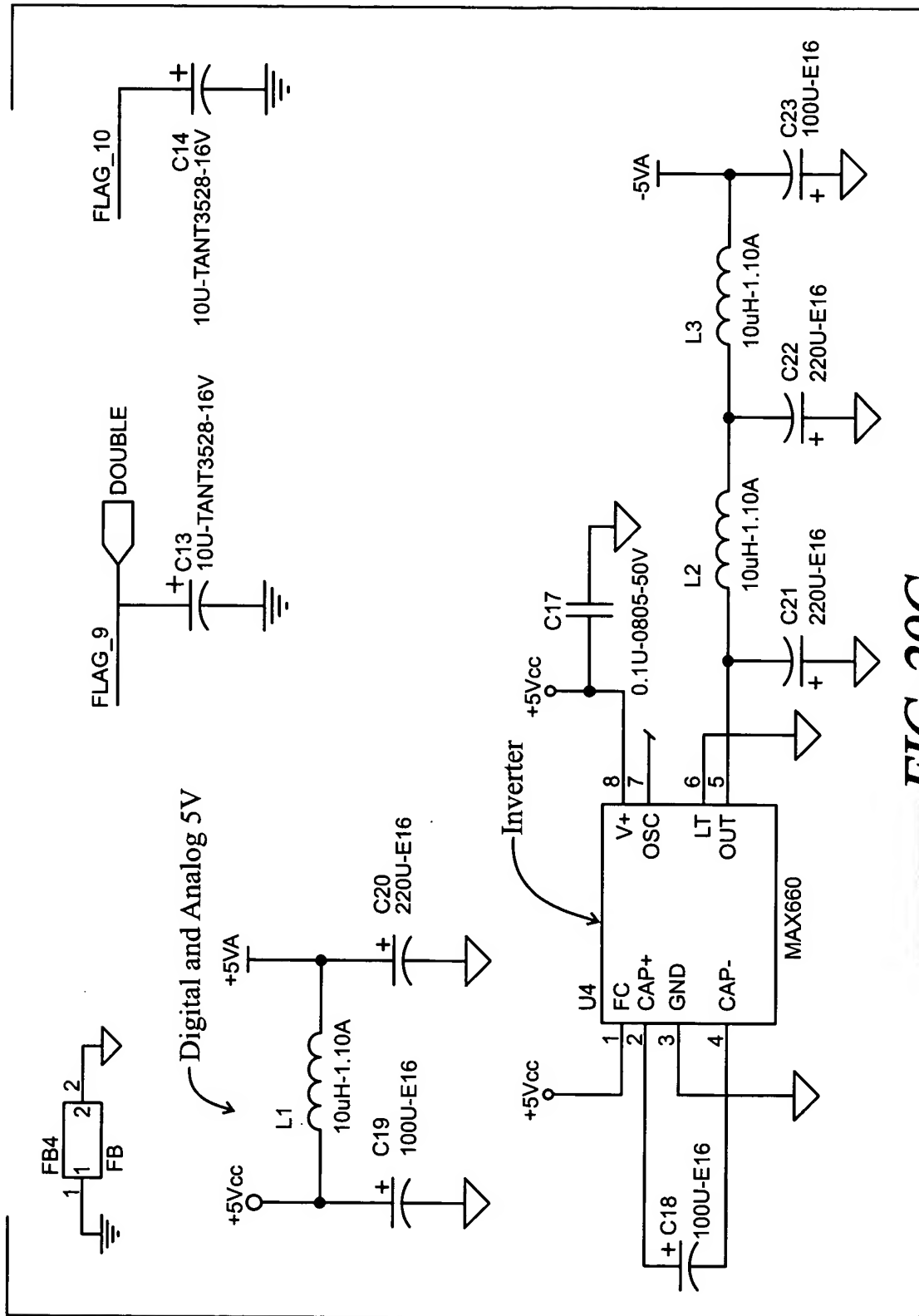
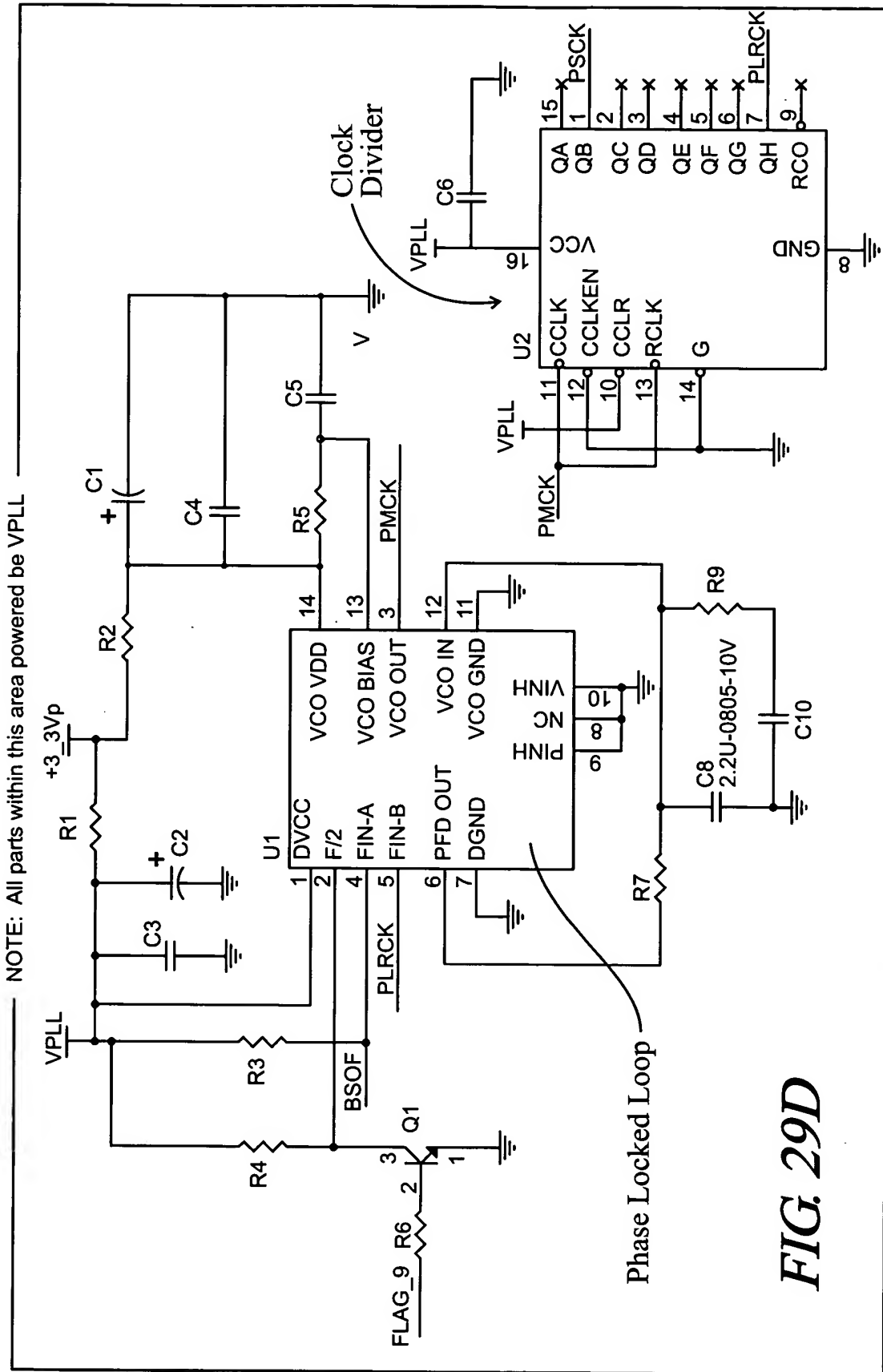


FIG. 29C



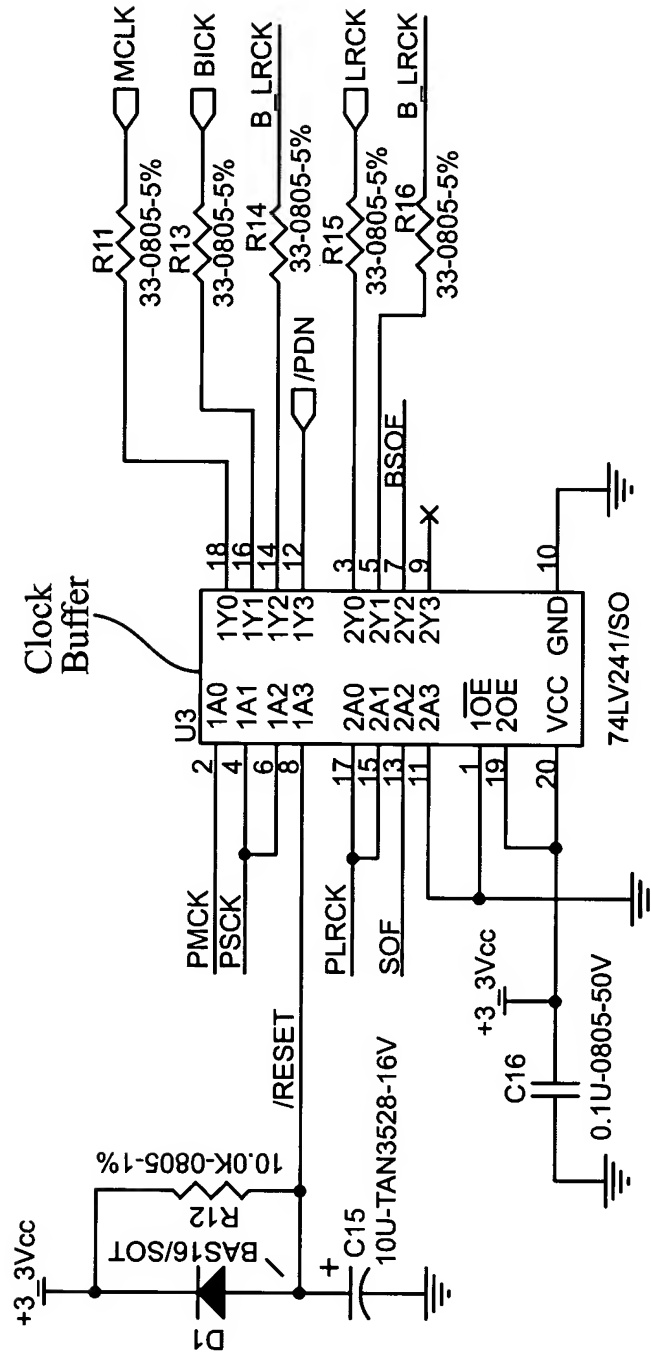


FIG. 29E

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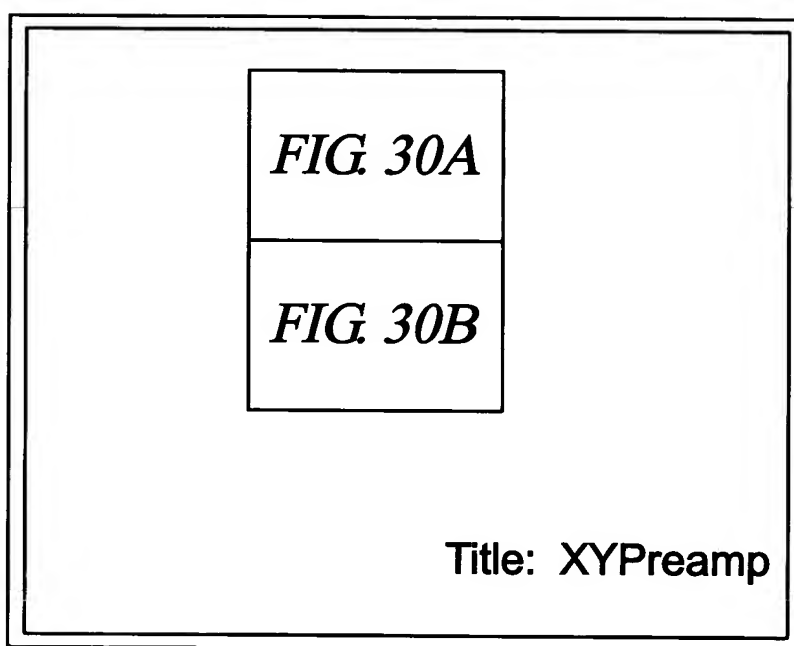
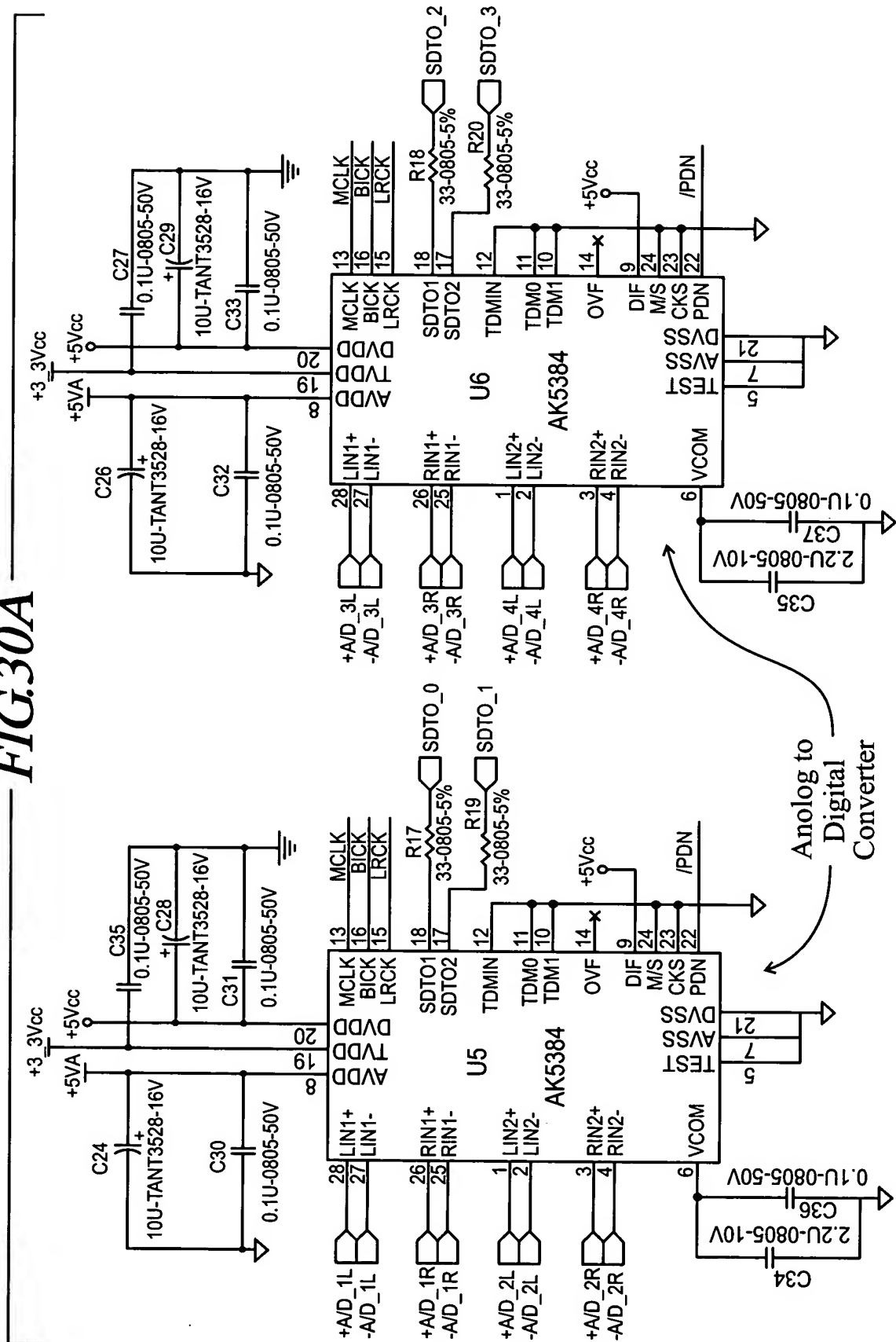


FIG. 30

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FIG.30A



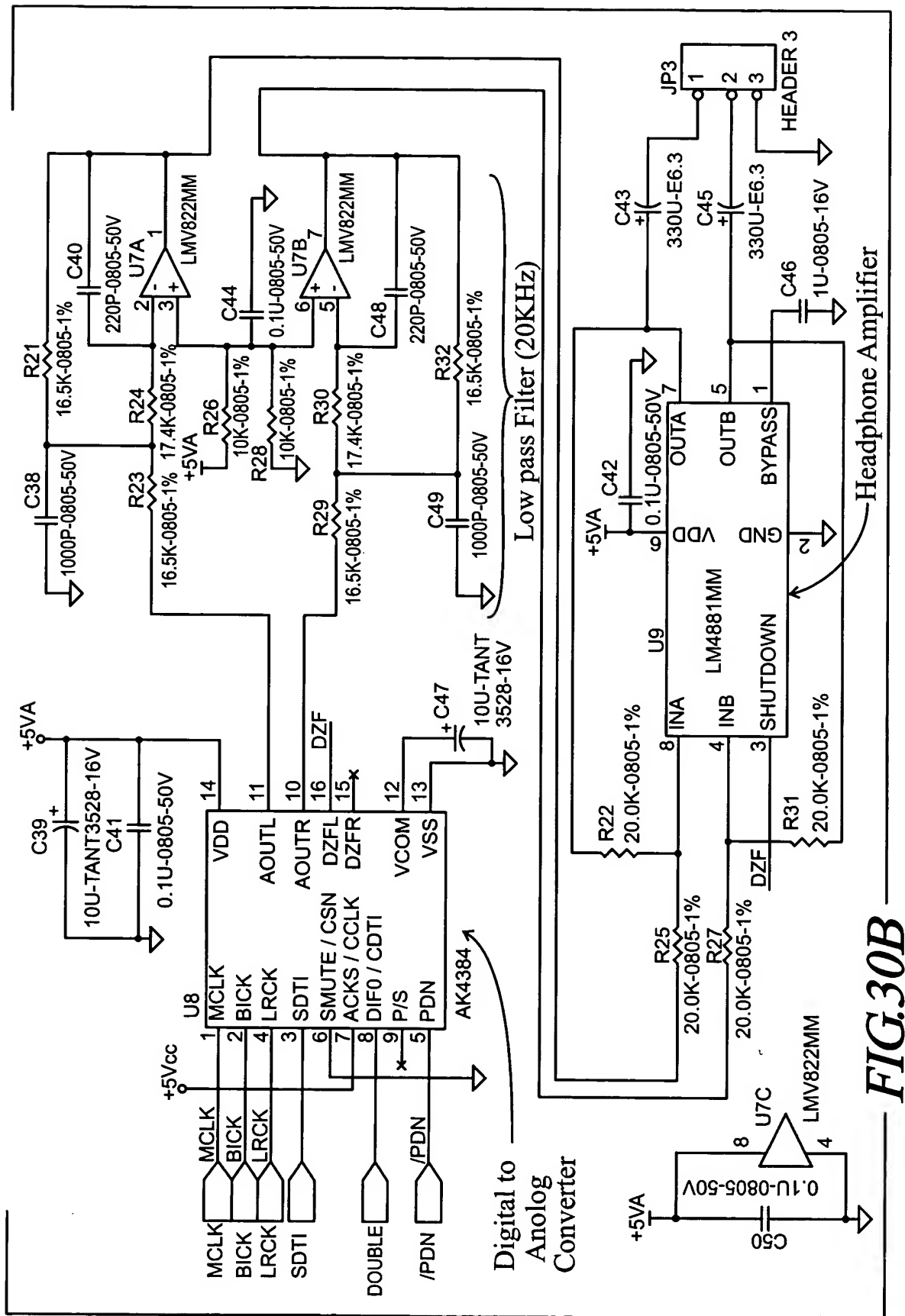


FIG.30B

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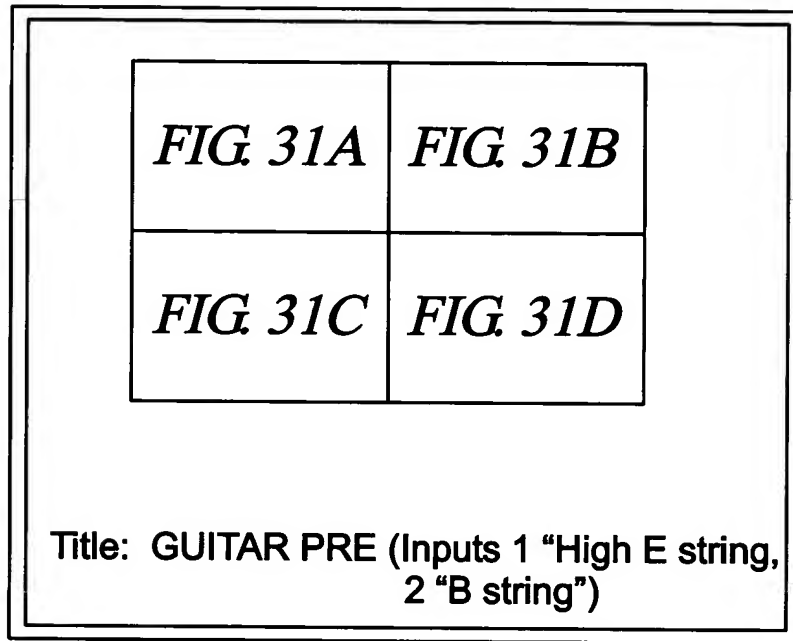


FIG. 31

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FIG. 31A

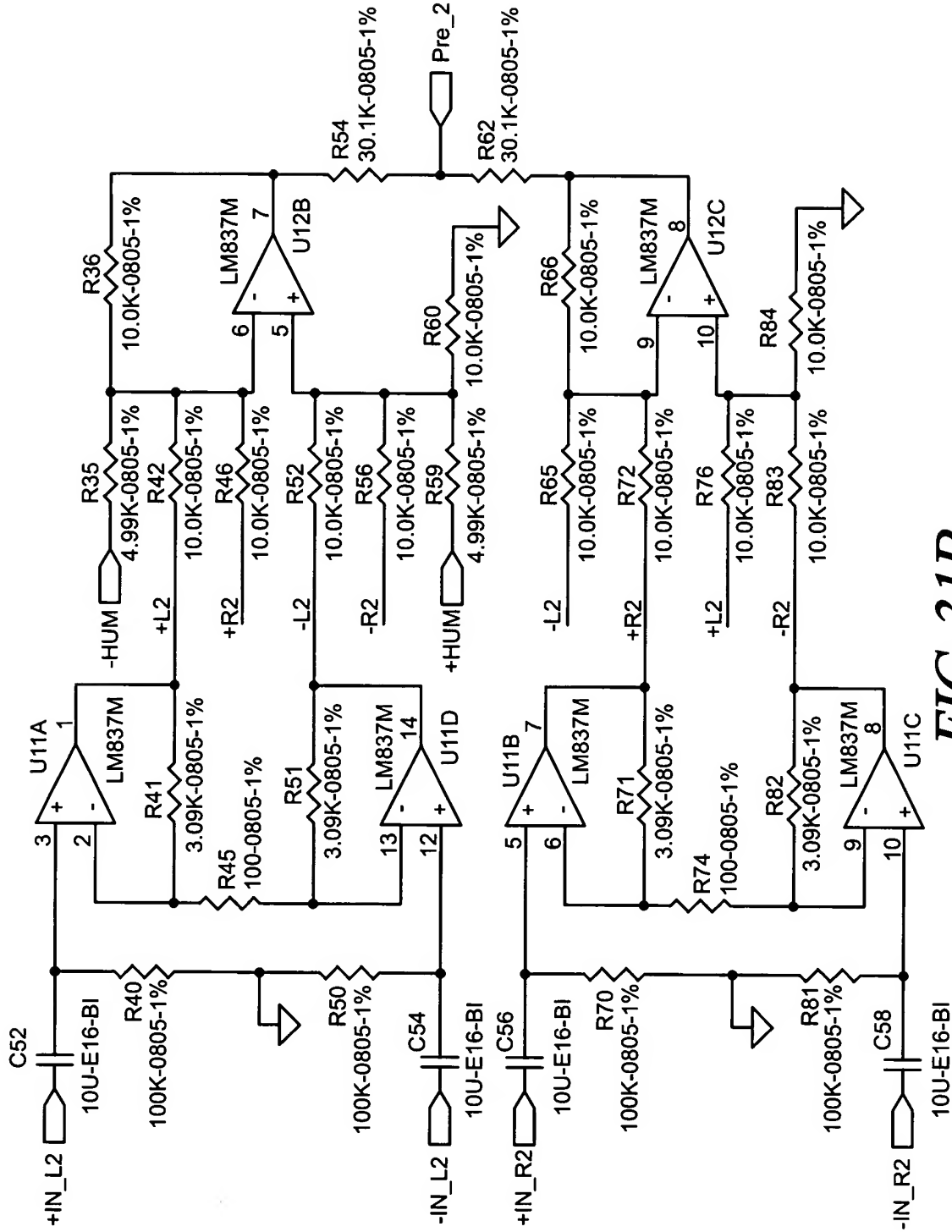


FIG. 31B

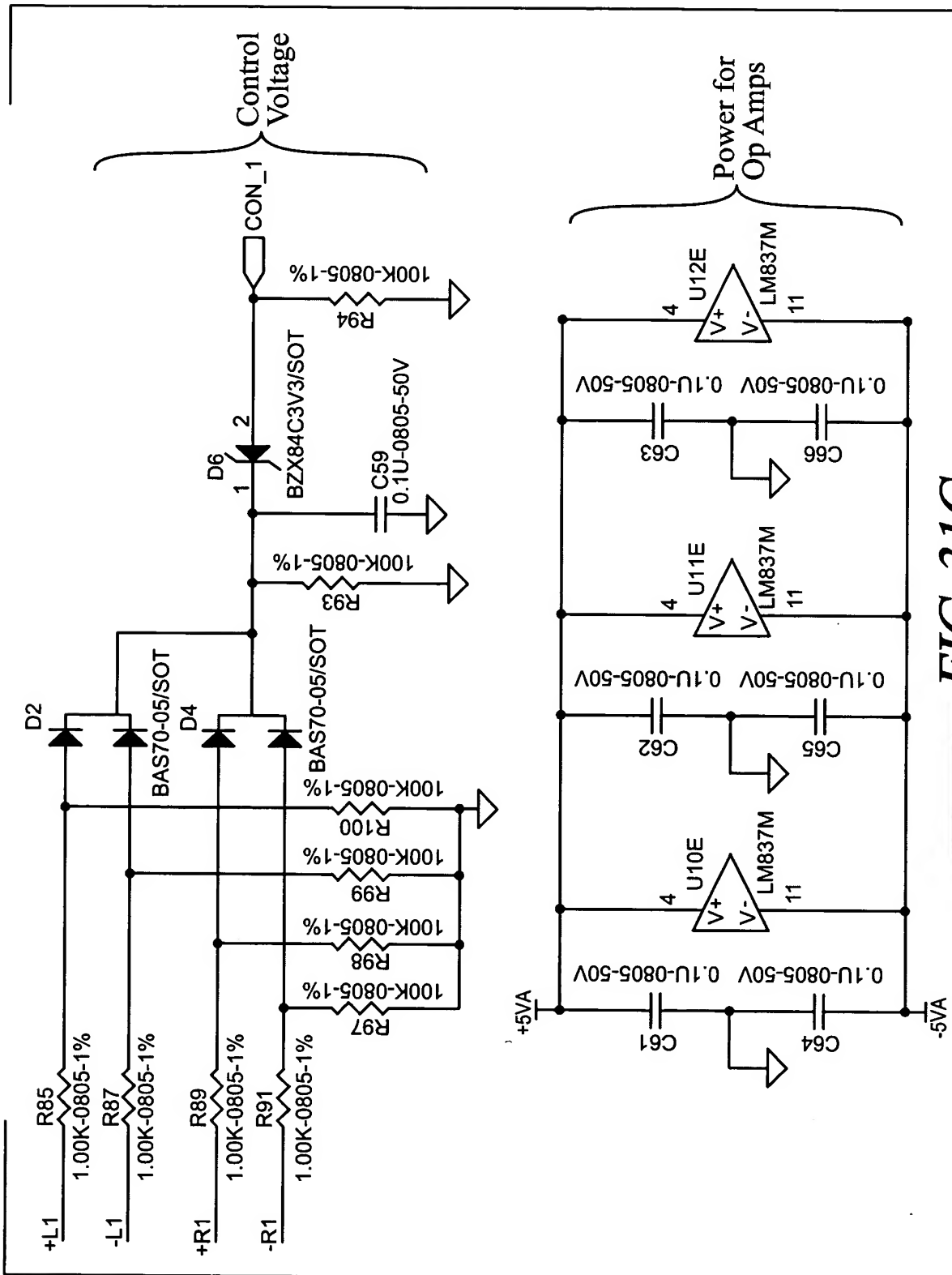


FIG 31C

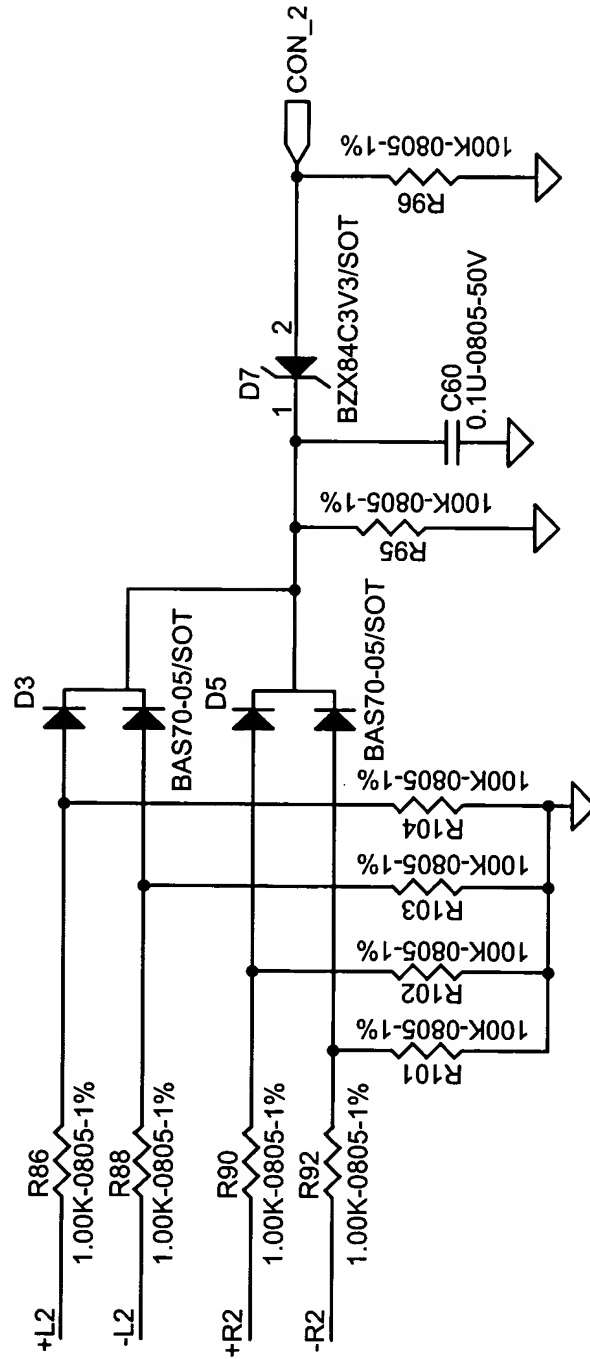


FIG. 31D

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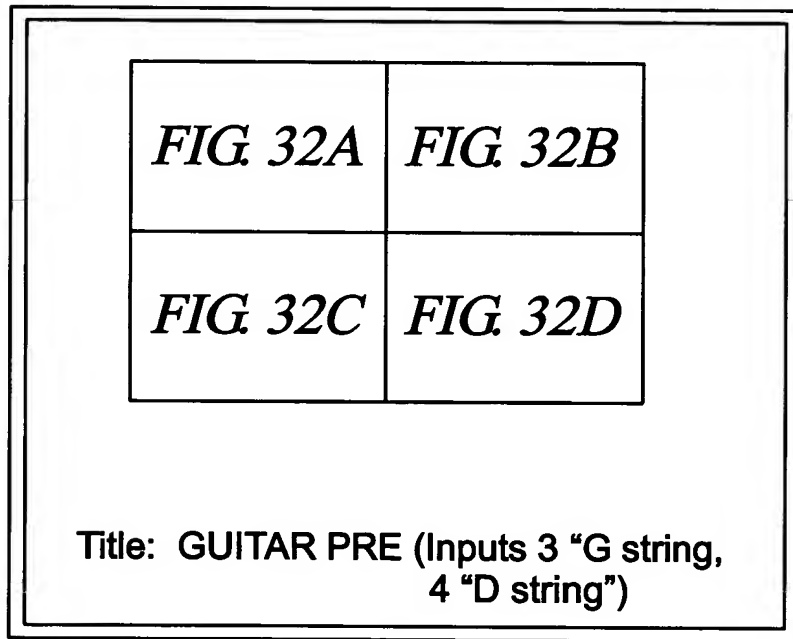


FIG. 32

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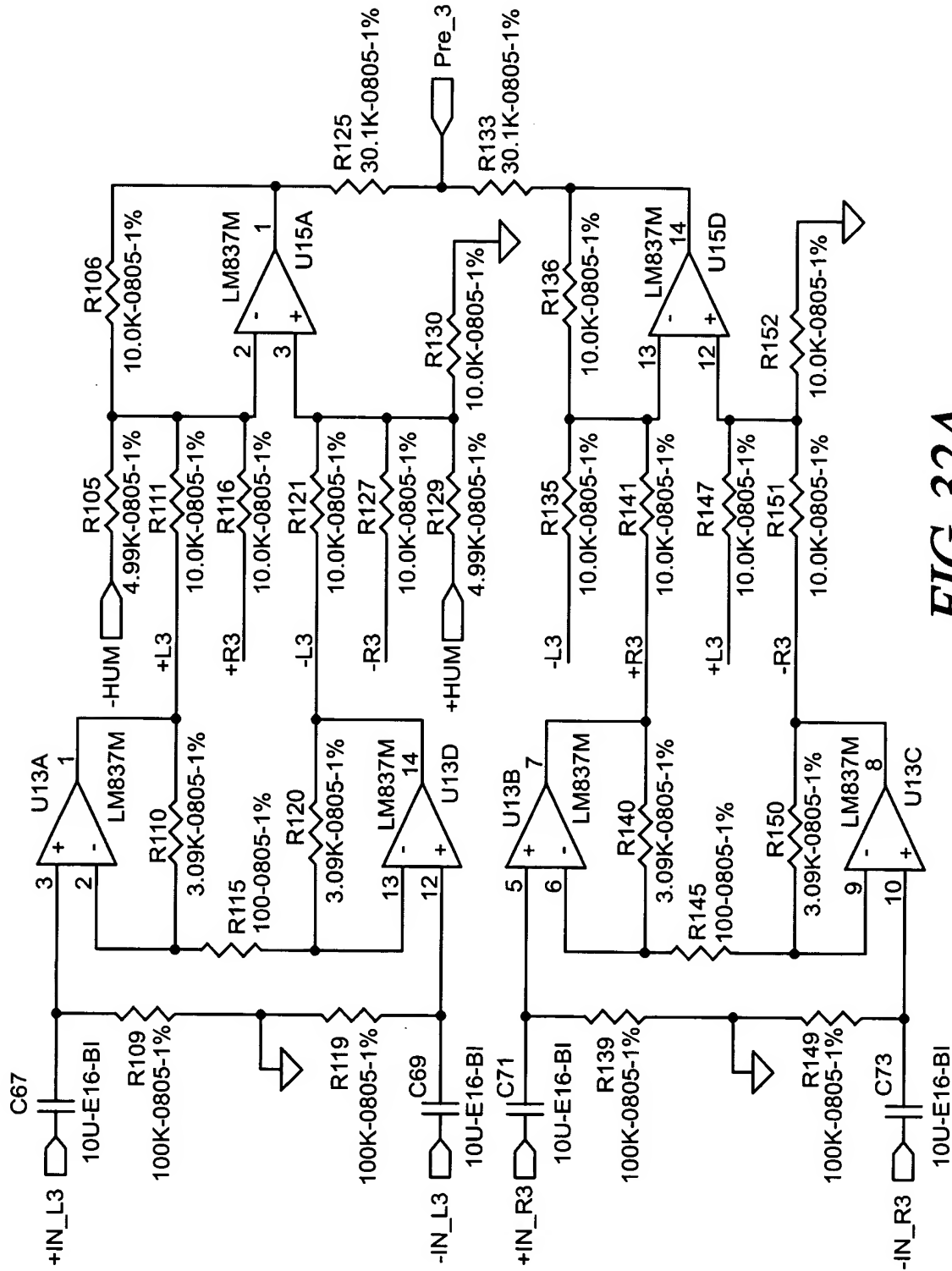


FIG 32A



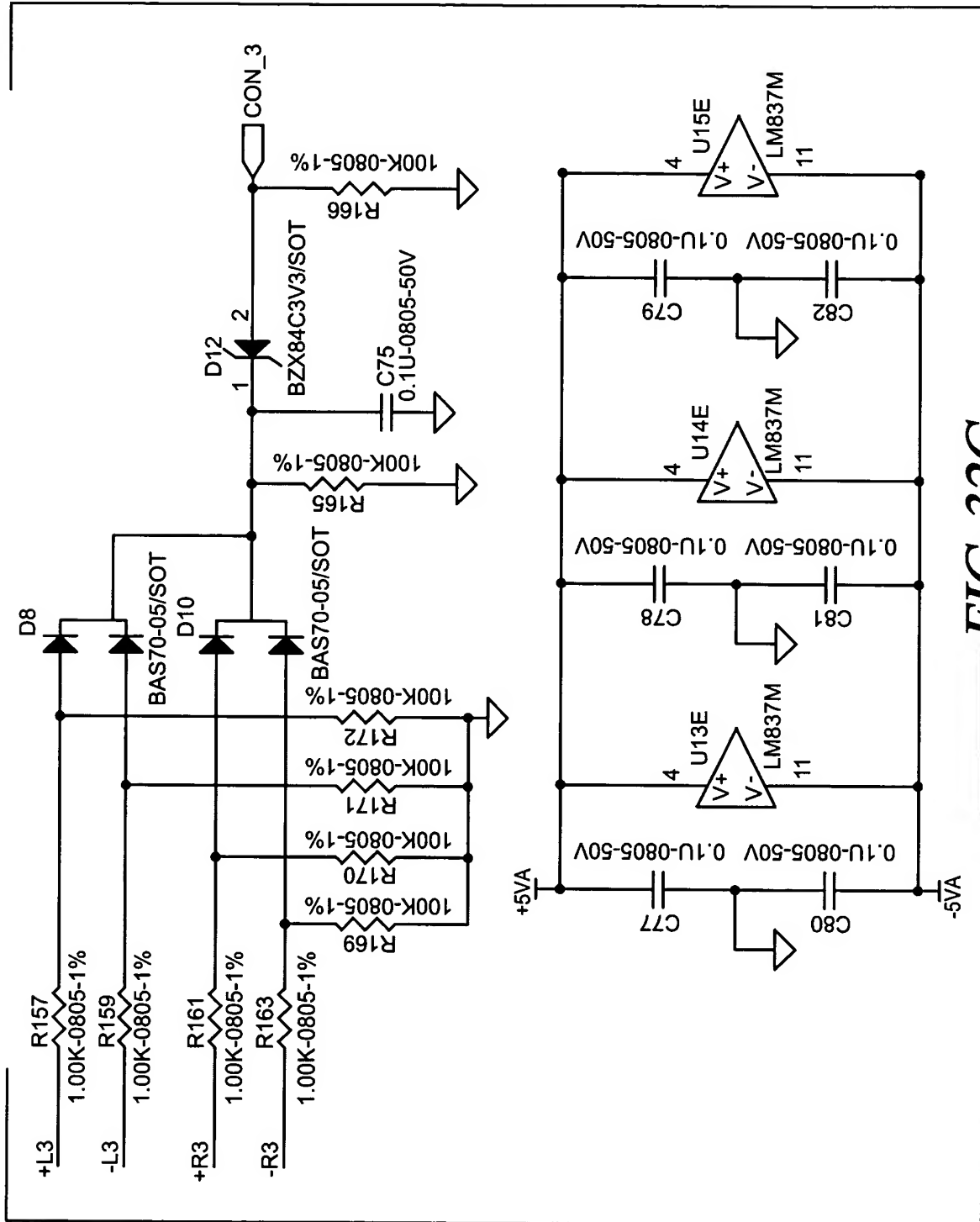


FIG. 32C

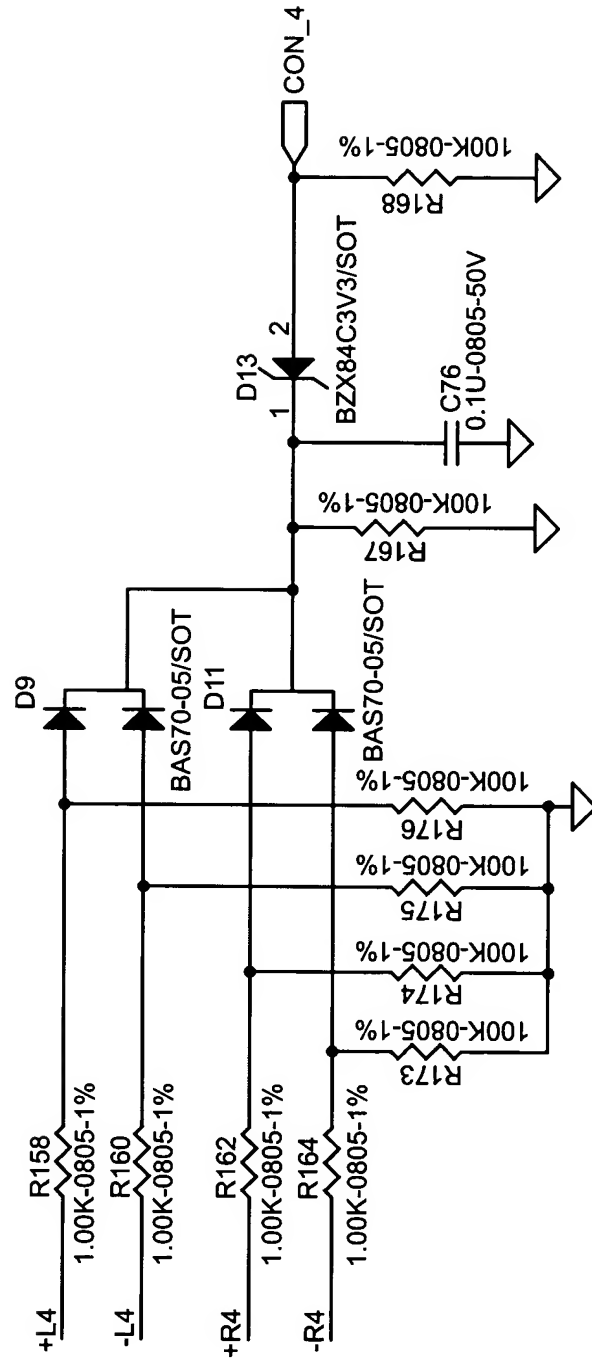


FIG. 32D

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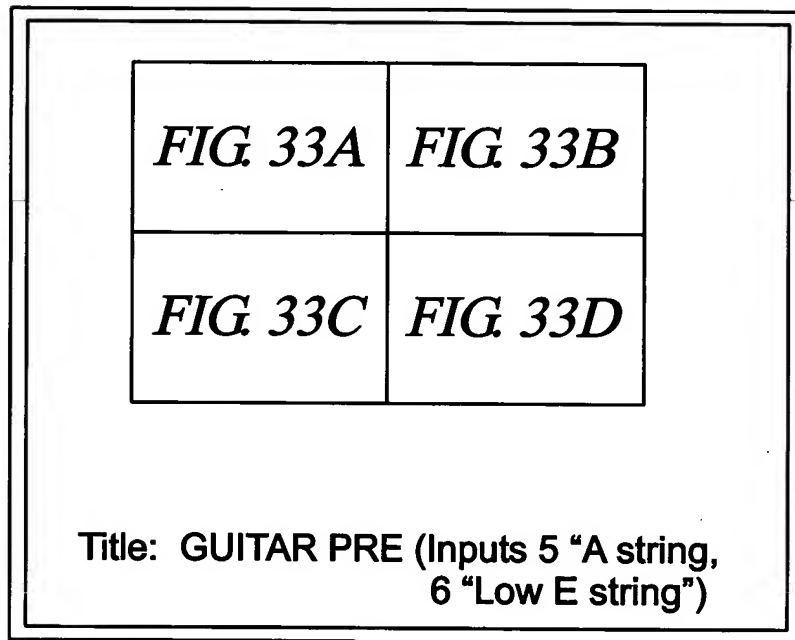


FIG. 33

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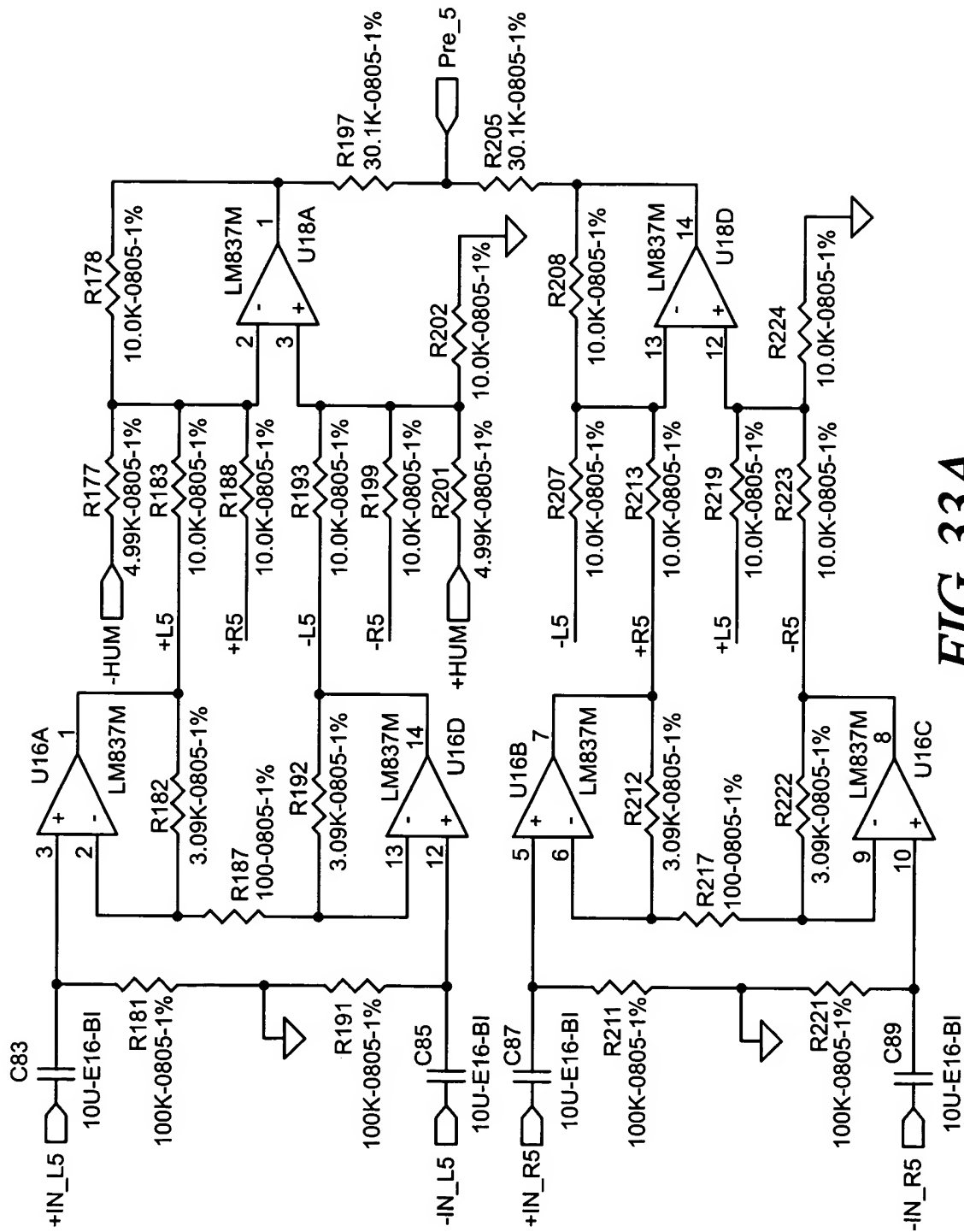


FIG. 33A





FIG. 33C



FIG. 33D

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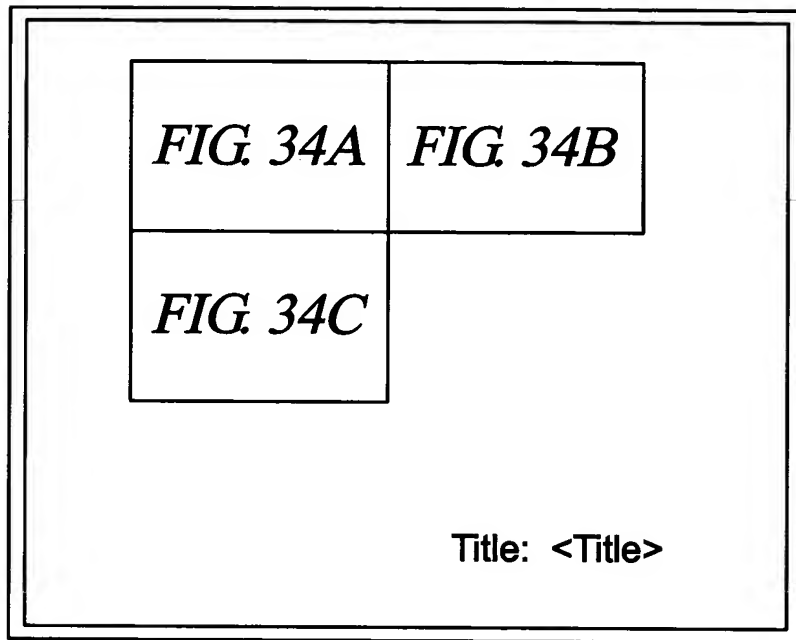
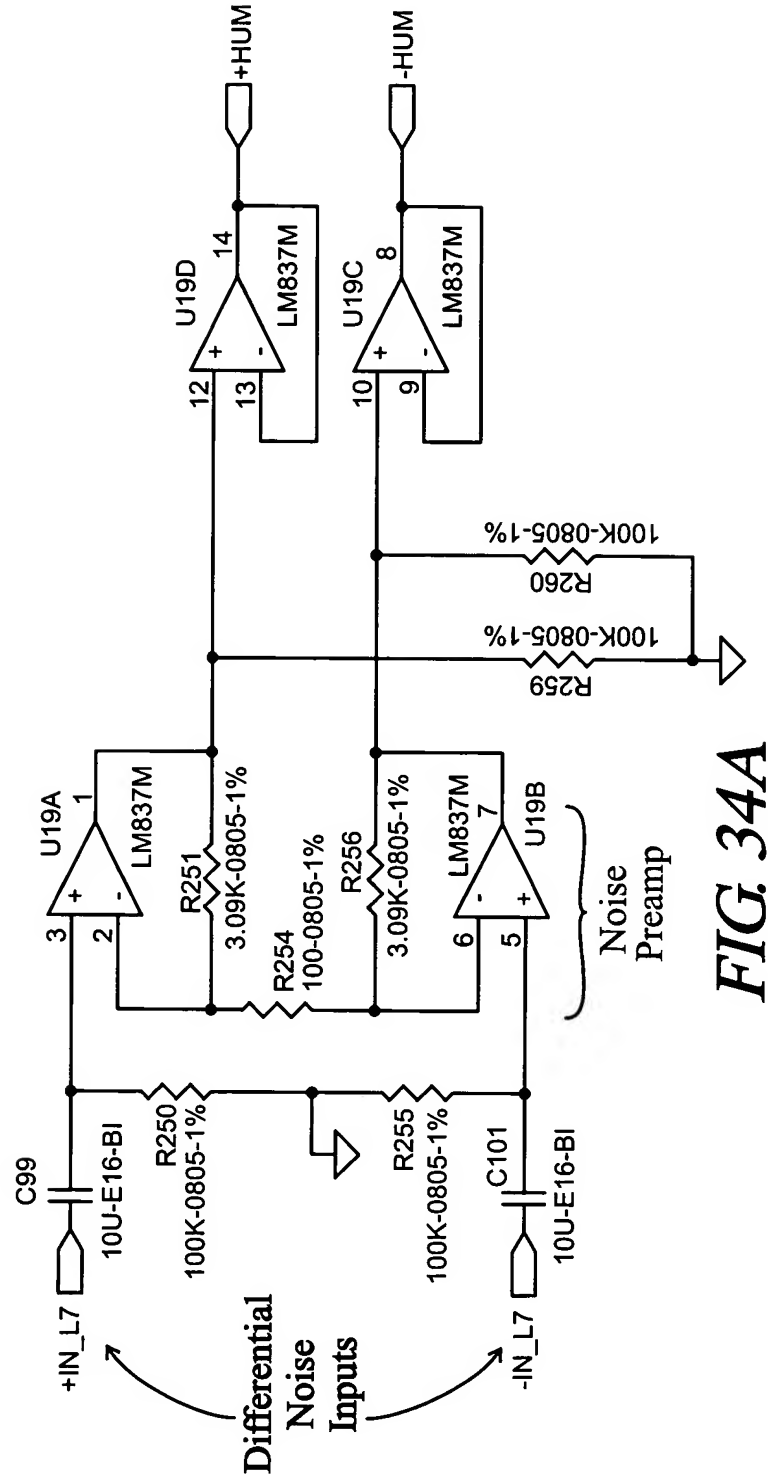


FIG. 34

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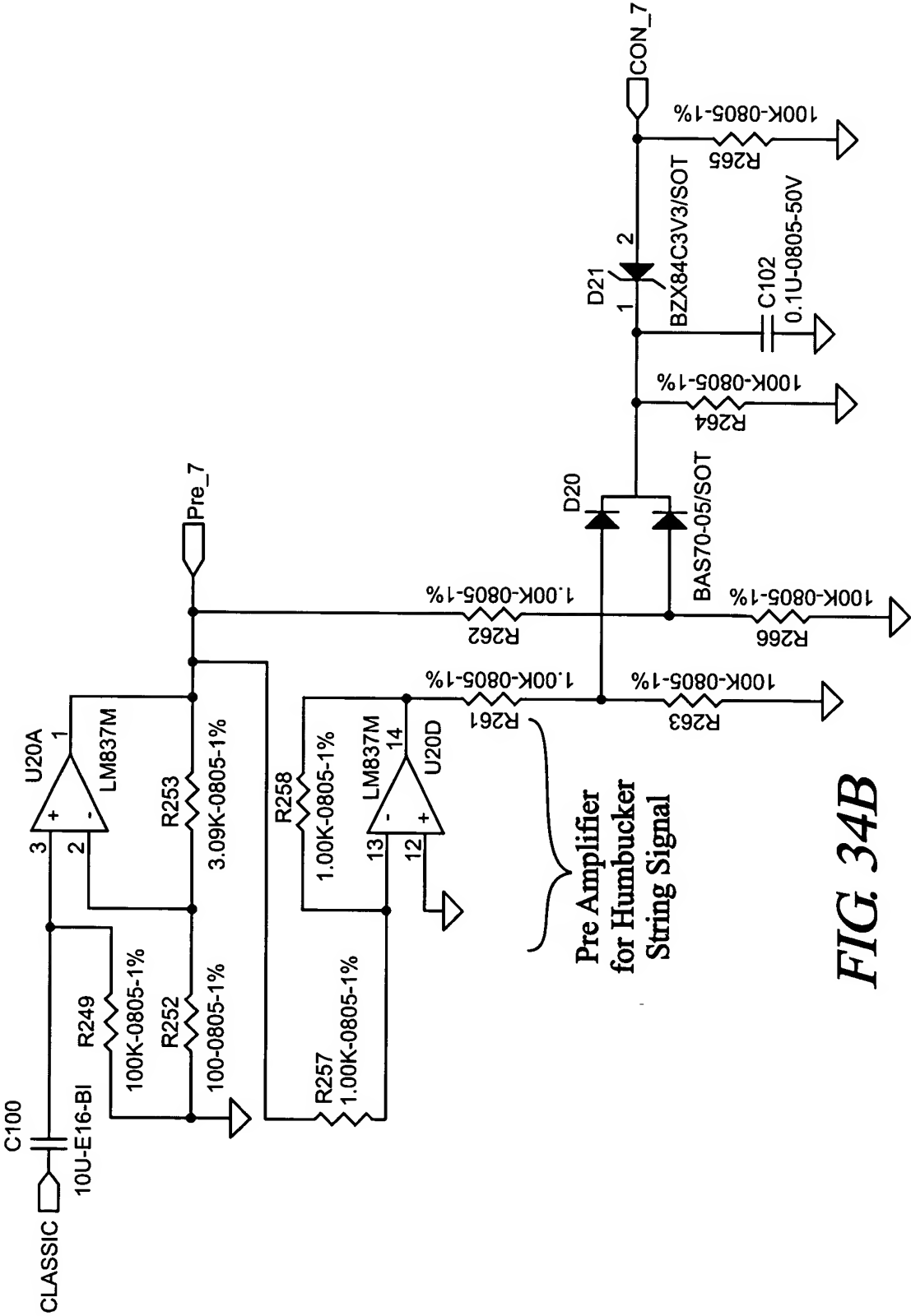


FIG. 34B

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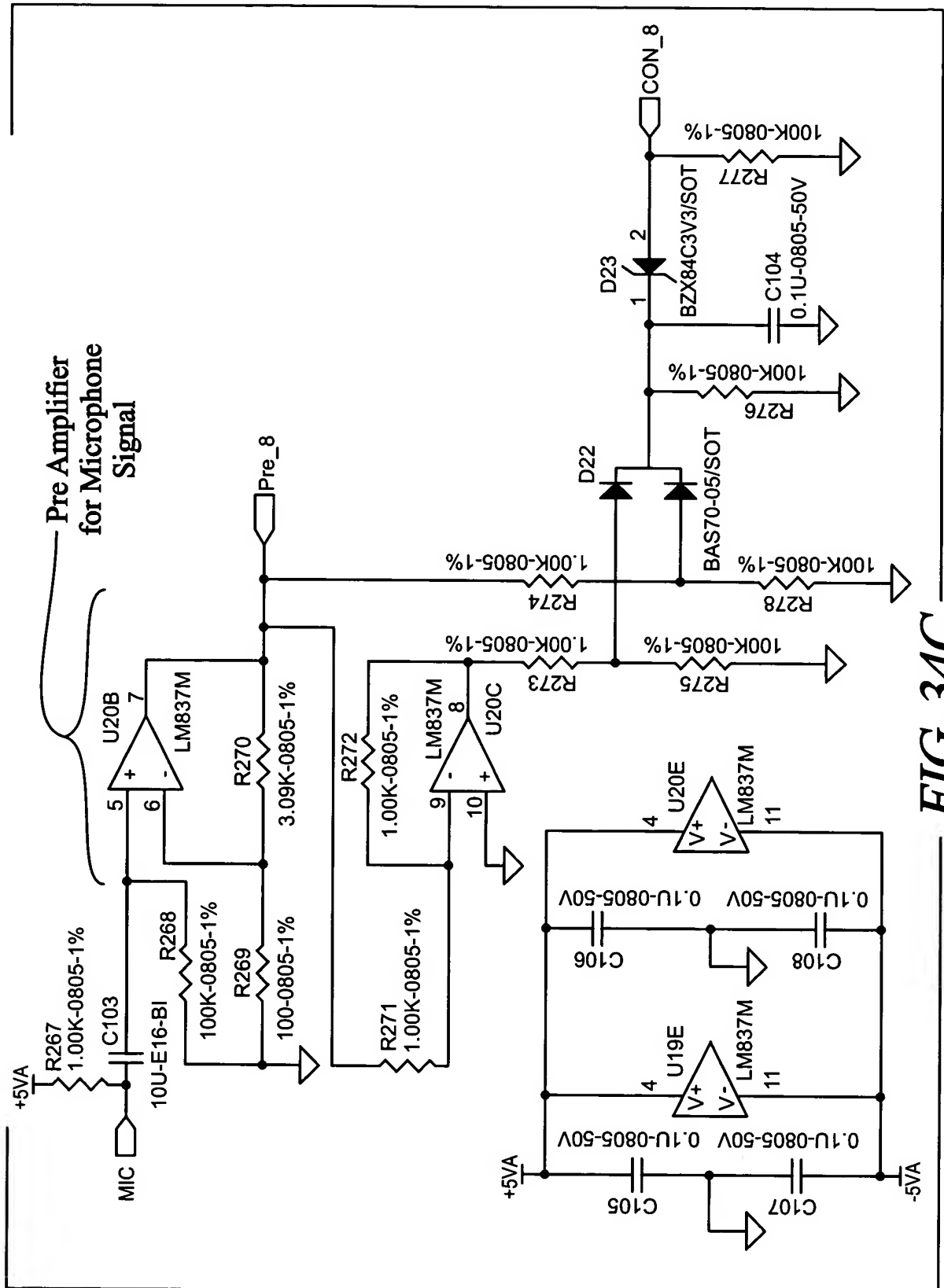


FIG. 34C

+

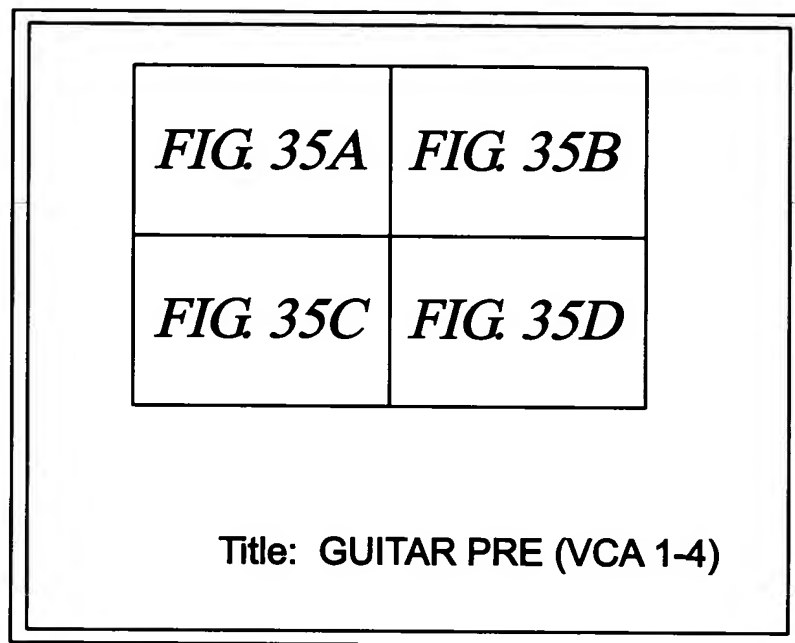


FIG. 35

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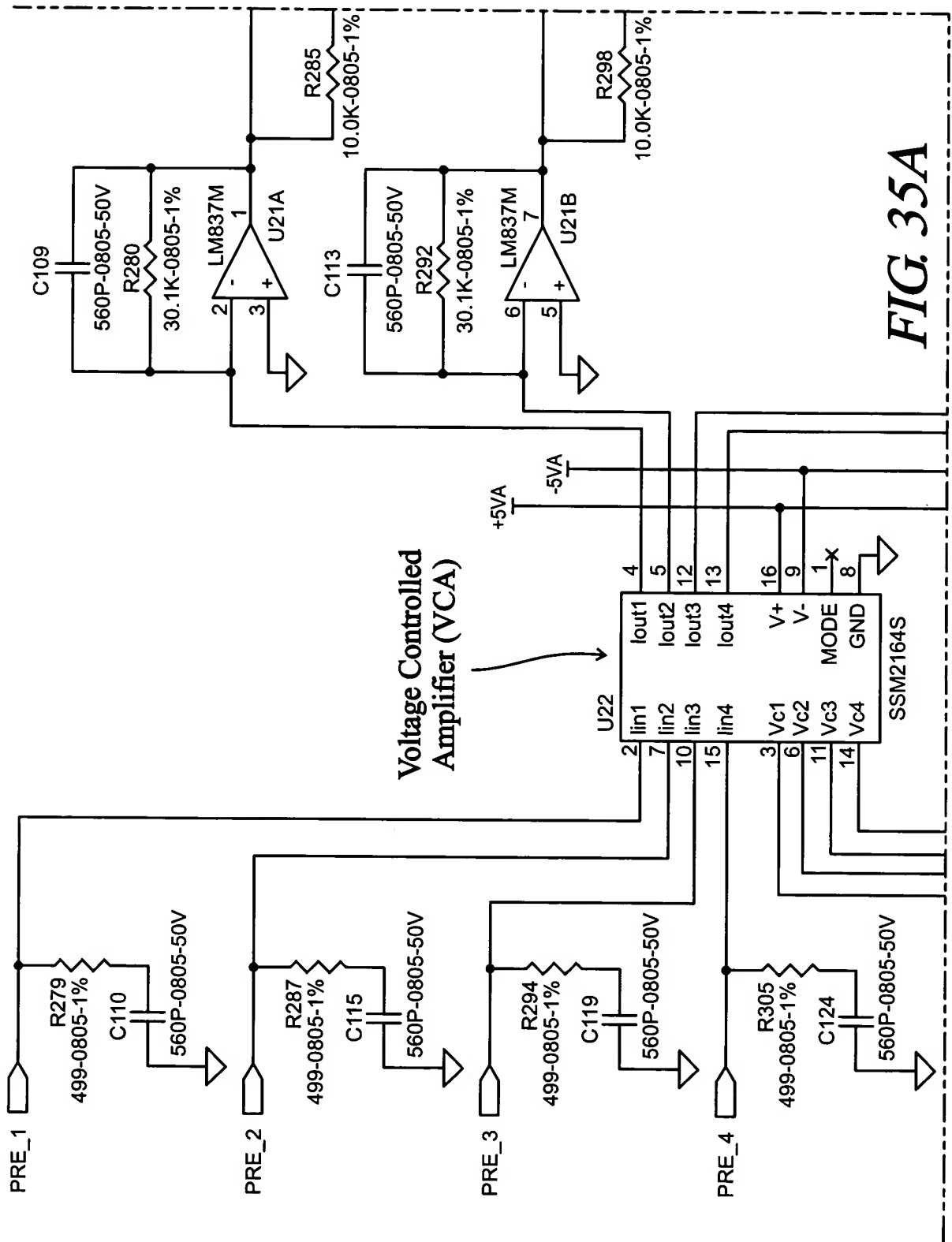




FIG. 35B

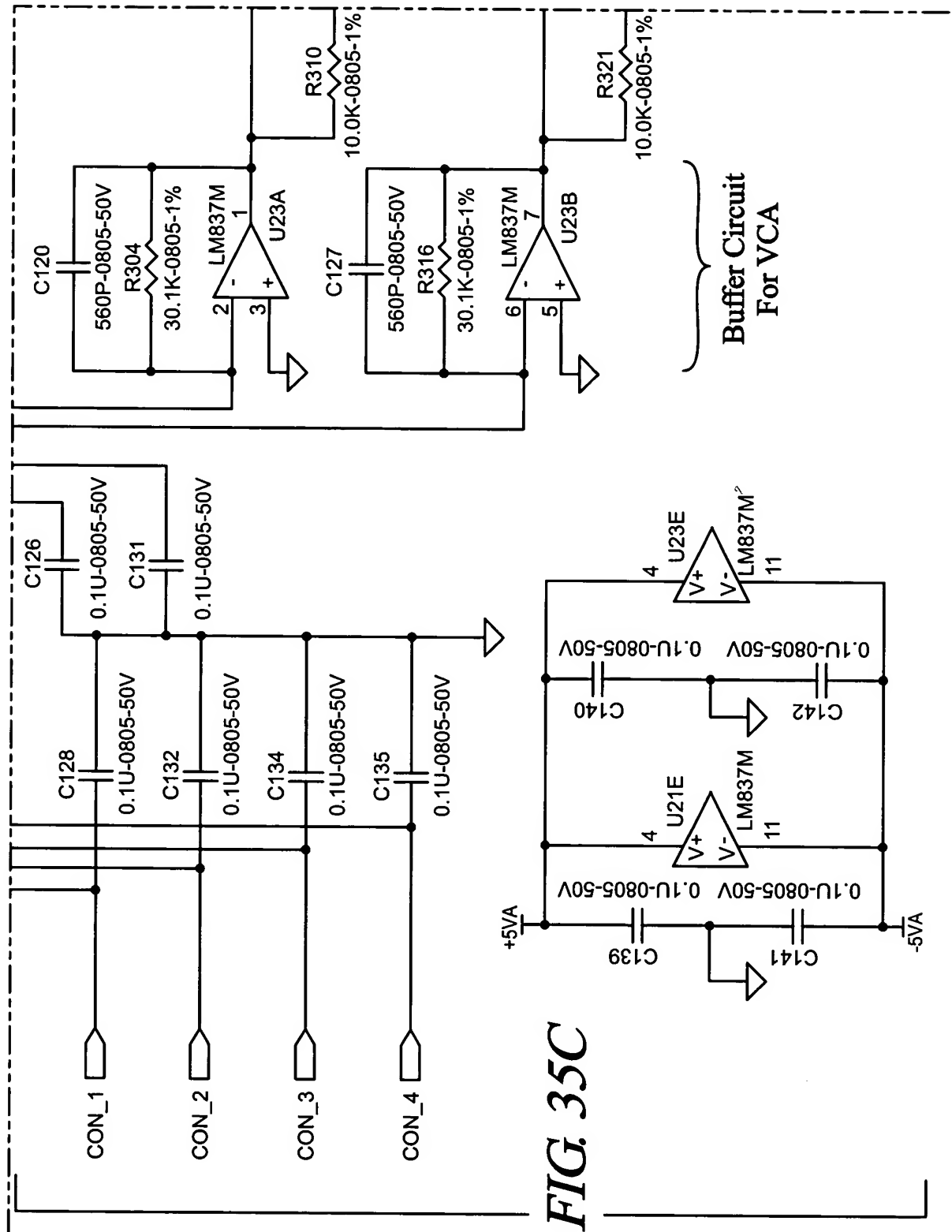


FIG. 35C

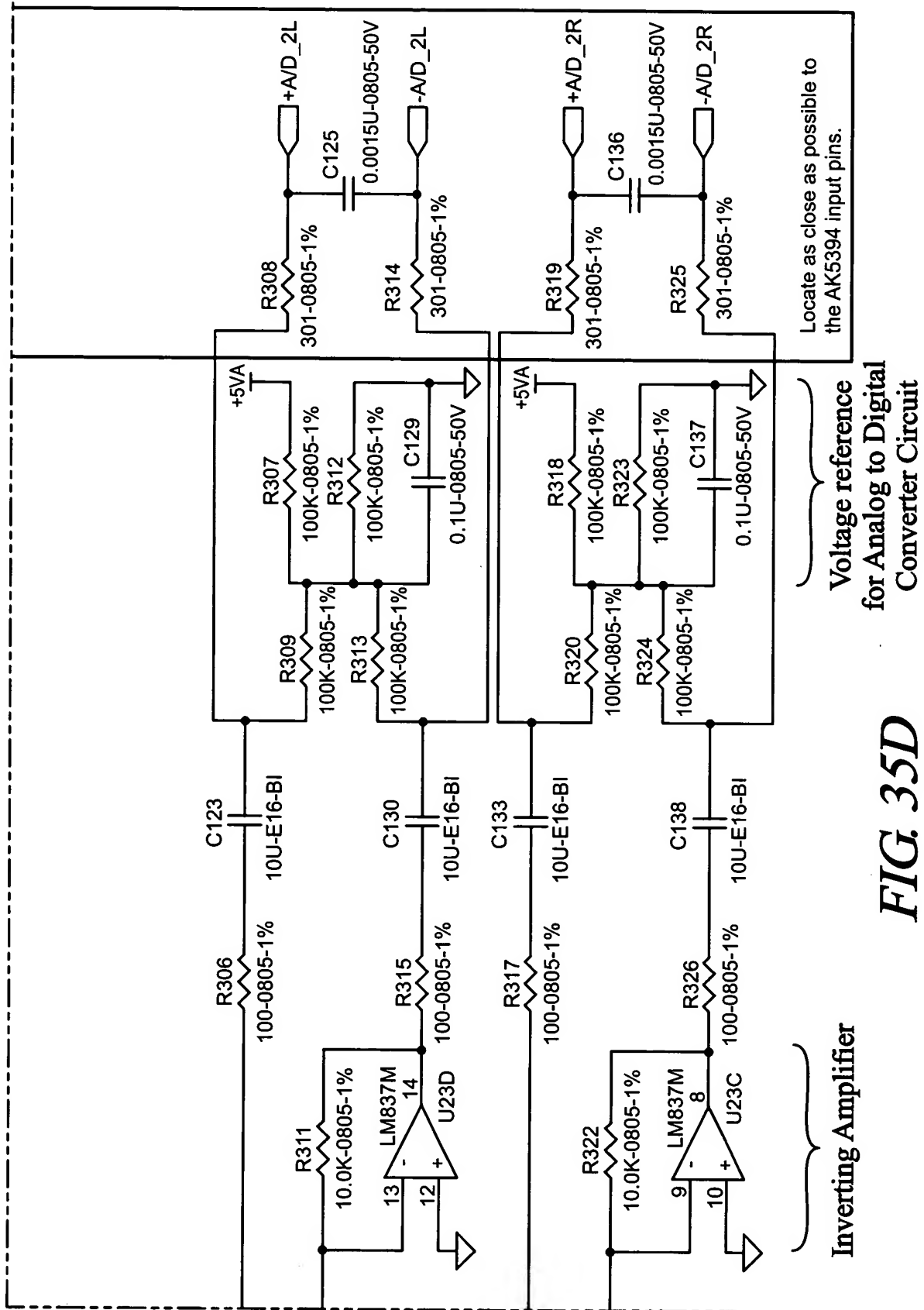


FIG. 35D

Inverting Amplifier

Voltage reference
for Analog to Digital
Converter Circuit

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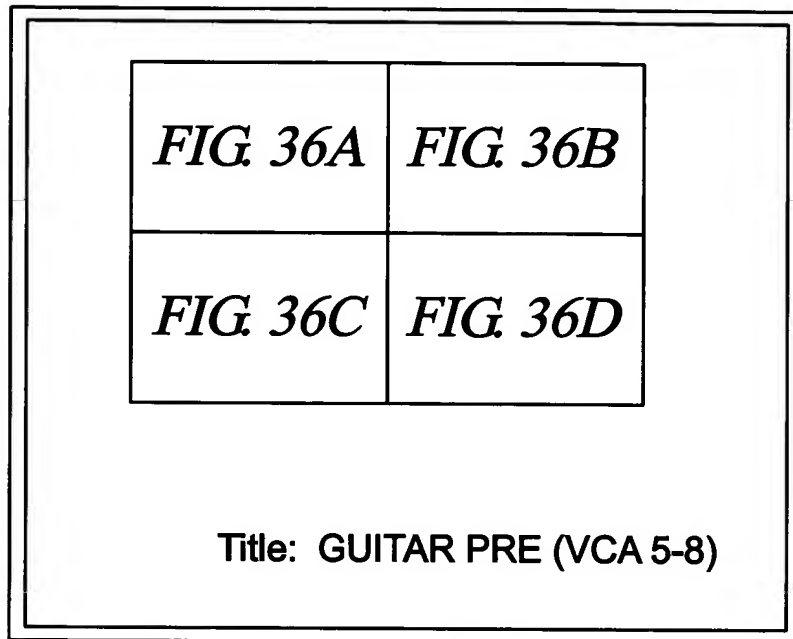


FIG. 36

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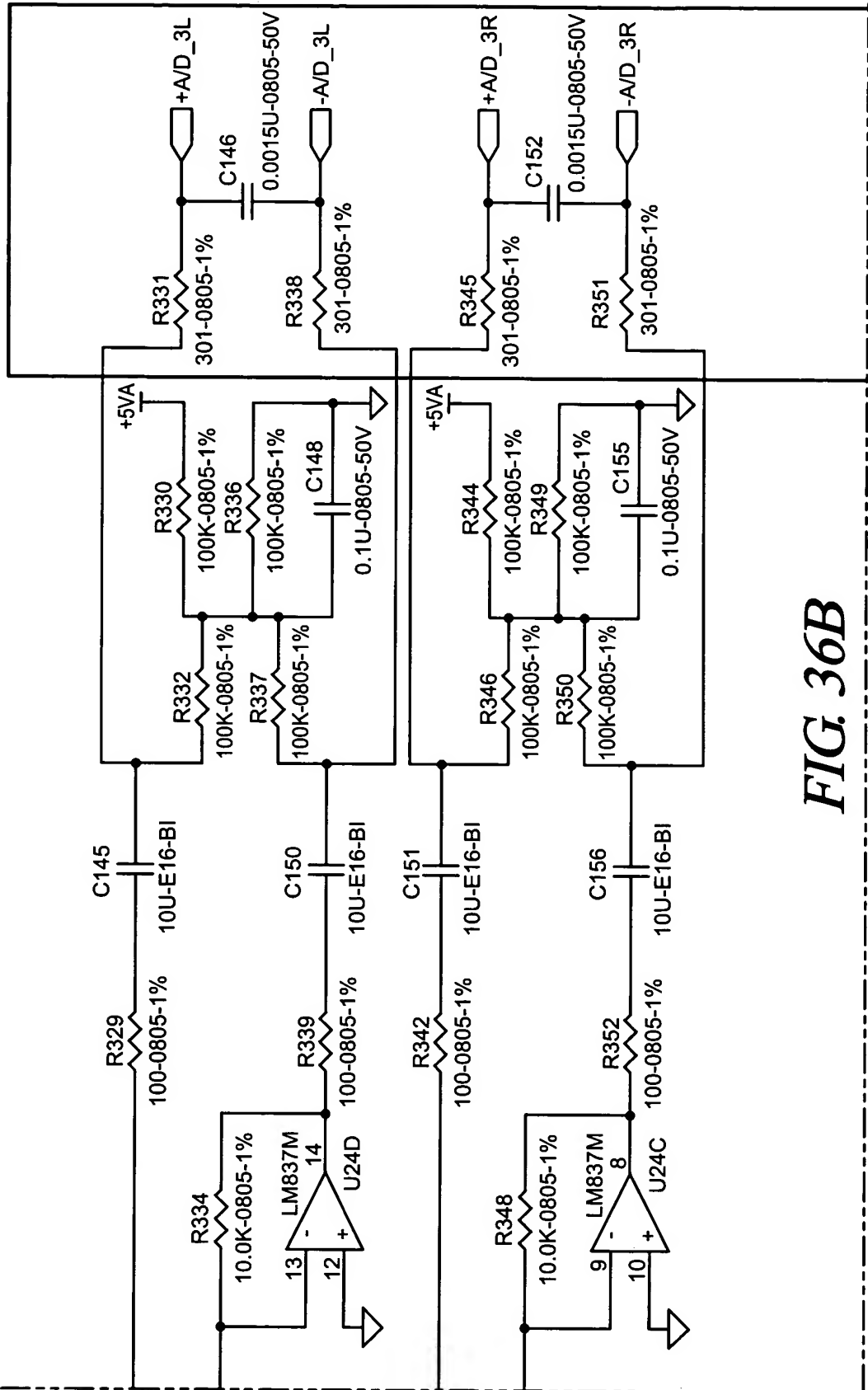


FIG 36B

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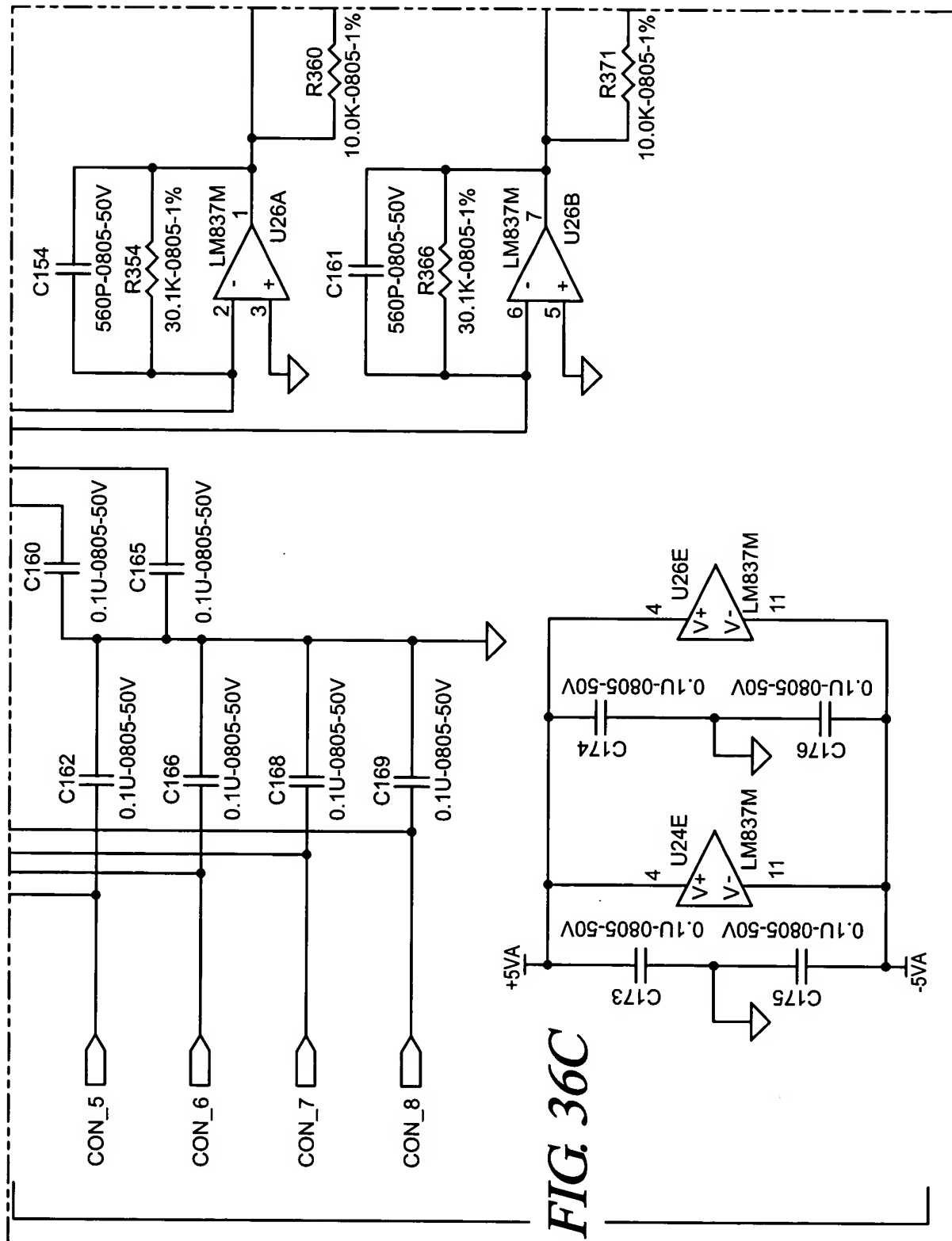
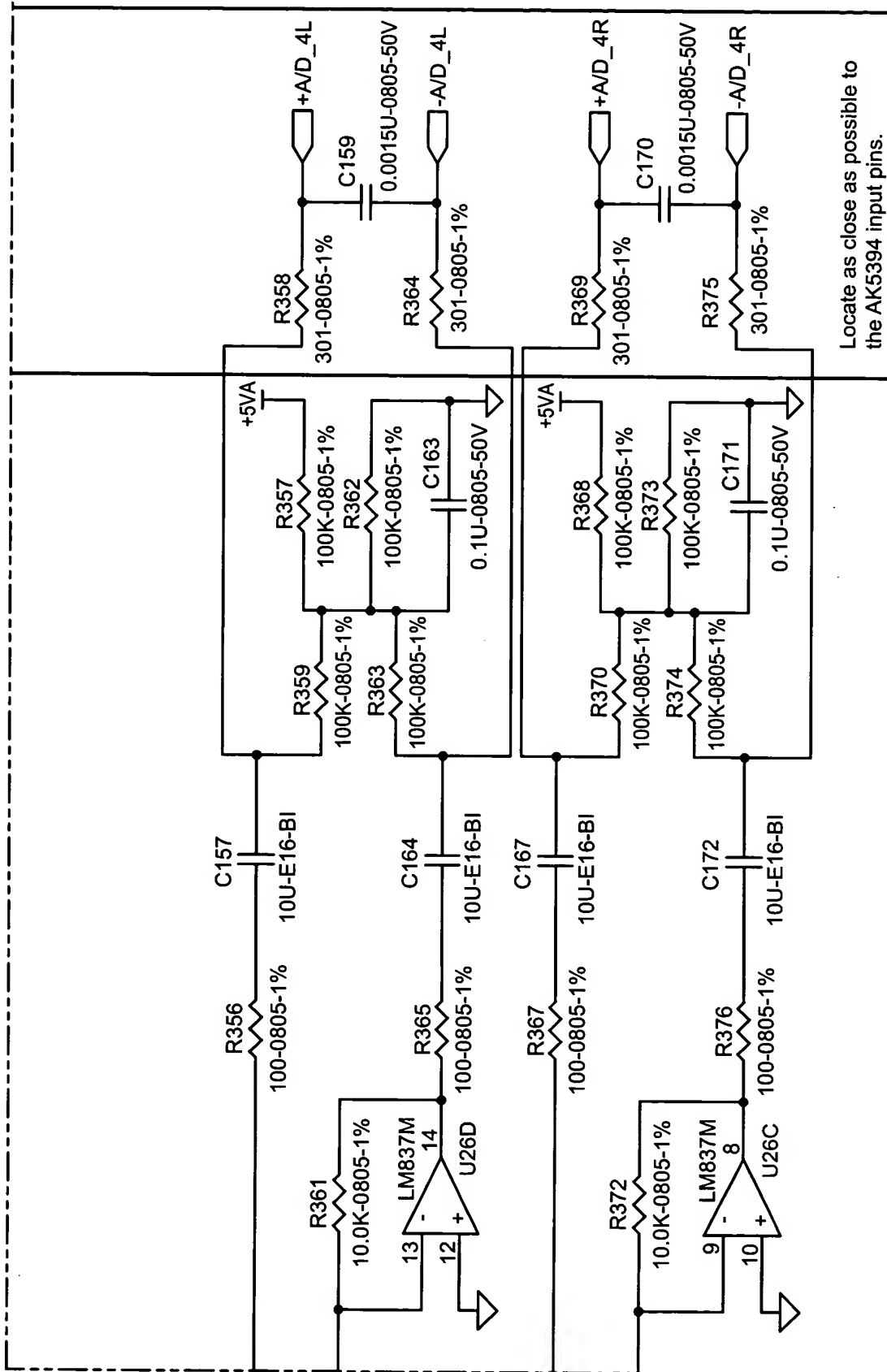


FIG. 36C



Locate as close as possible to the AK5394 input pins.

FIG. 36D